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Map

1997 LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

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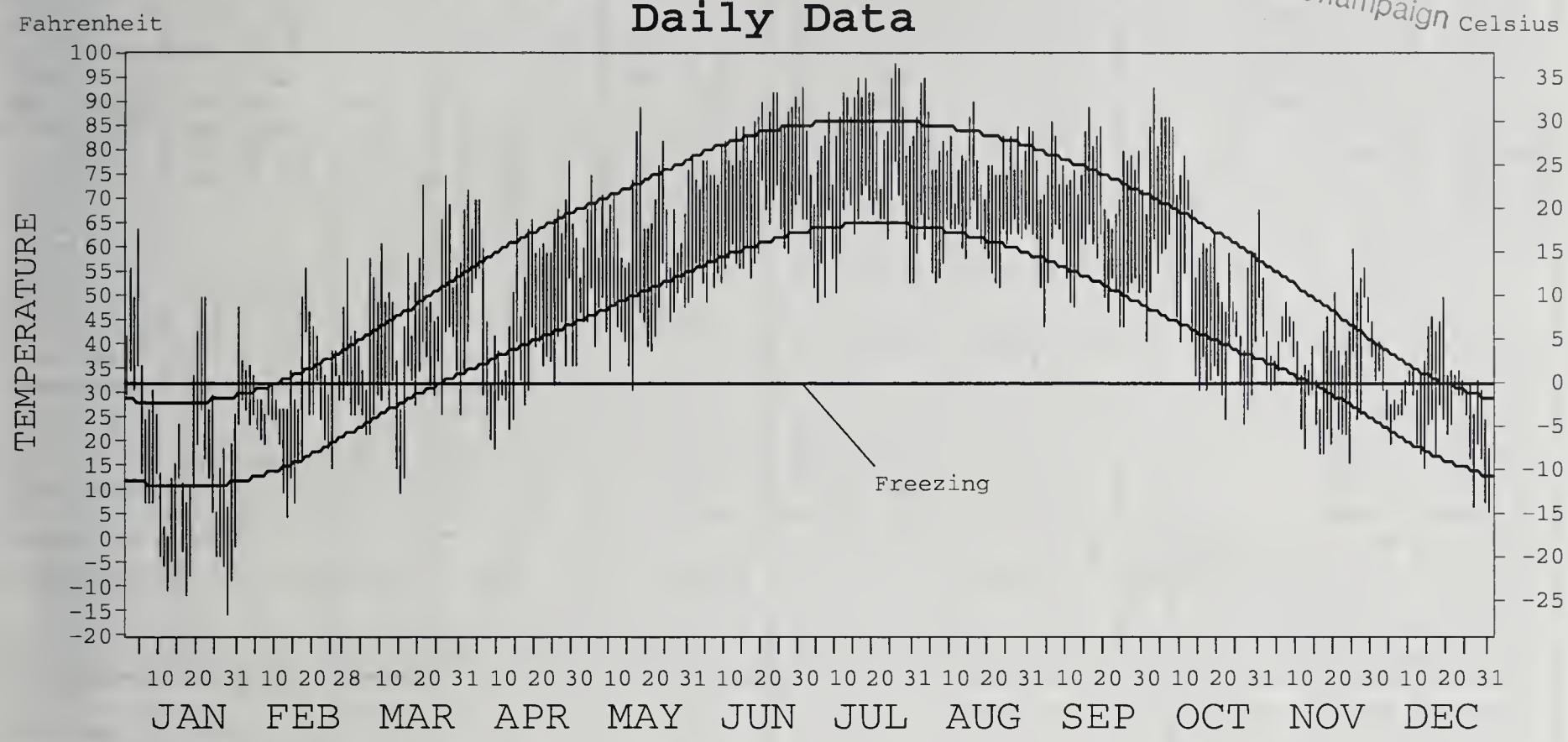
MOLINE,
ILLINOIS (MLI)

Daily Data



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA

Kenneth D. Davidson
ACTING DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR

MOLINE, IL (MLI)

LATITUDE: 41° 27′ 55″ N | LONGITUDE: 90° 31′ 24″ W | ELEVATION (FT): GRND: 582 BARO: 605 | TIME ZONE: CENTRAL (UTC+ 6) | WBAN: 14923

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	26.9	35.3	50.8	57.6	67.1	82.6	85.9	80.3	76.3	65.3	43.2	34.5	58.8
	HIGHEST DAILY MAXIMUM	64	56	75	78	89	92	98	95	89	93	60	50	98
	DATE OF OCCURRENCE	04	18	27	29	18	24+	26	03	16	03	25	19	JUL 26
	MEAN DAILY MINIMUM	7.5	22.7	29.8	36.1	45.1	59.8	63.7	61.2	55.1	43.0	30.2	23.3	39.8
	LOWEST DAILY MINIMUM	-15	5	10	19	31	49	49	52	44	24	16	6	-15
	DATE OF OCCURRENCE	28	13	15	09	16	5	05	23	25+	27	24	31	JAN 28
	AVERAGE DRY BULB	17.2	29.0	40.3	46.9	56.1	71.2	74.8	70.8	65.7	54.2	36.7	28.9	49.3
	MEAN WET BULB	16.4	27.7		40.8	49.5	64.4	68.1	66.1	60.8	49.2	34.4	28.1	
	MEAN DEW POINT	11.7	24.4		32.6	41.8	59.8	63.8	63.6	57.4	44.8	30.6	25.5	
	NUMBER OF DAYS WITH:													
	MAXIMUM ≥ 90°	0	0	0	0	0	4	12	3	0	1	0	0	20
	MAXIMUM ≤ 32°	21	12	2	1	0	0	0	0	0	0	1	12	49
	MINIMUM ≤ 32°	29	25	20	12	1	0	0	0	0	8	20	29	144
	MINIMUM ≤ 0°	14	0	0	0	0	0	0	0	0	0	0	0	14
H/C	HEATING DEGREE DAYS	1474	1000	757	537	277	4	5	2	61	395	838	1110	6460
	COOLING DEGREE DAYS	0	0	0	1	11	196	315	186	87	66	0	0	862
RH	MEAN (PERCENT)	77	83	70	62	62	69	70	81	77	73	80	86	74
	HOUR 00 LST	80	88	76	72	74	83	81	91	87	82	84	89	82
	HOUR 06 LST	82	87	84	77	74	84	85	92	90	88	86	89	85
	HOUR 12 LST	71	77	61	51	51	53	55	70	63	58	72	80	64
	HOUR 18 LST	75	81	59	52	48	56	58	70	70	71	78	86	67
S	PERCENT POSSIBLE SUNSHINE													
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG(VISBY ≤ 1/4 MI)	6	0	1	1	0	1	0	3	1	1	3	2	19
	THUNDERSTORMS	0	0	1	1	5	10	6	10	4	3	0	0	40
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	MIDNIGHT-MIDNIGHT: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	NUMBER OF DAYS WITH:													
	CLEAR													
	PARTLY CLOUDY													
	CLOUDY													
PR	MEAN STATION PRESS. (IN.)	29.41	29.52			29.32	29.27	29.38		29.37	29.39	29.36	29.34	
	MEAN SEA-LEVEL PRESS. (IN.)	30.08	30.18			29.95	29.90	30.00		30.00	30.03	30.01	30.00	
WINDS	RESULTANT SPEED (MPH)	6.1	3.5		0.5	3.1	2.1	0.6	1.3	0.2	2.7	2.0	1.6	
	RES. DIR. (TENS OF DEGS.)	28	31		26	30	24	14	14	23	20	31	30	
	MEAN SPEED (MPH)	10.1	8.4	10.8	9.3	9.9	6.6	7.4	6.2	6.0	7.8	7.8	7.4	8.1
	PREVAIL.DIR.(TENS OF DEGS.)	29	30	32	21	31	22	25	11	06	22	29	29	29
	MAXIMUM 2-MINUTE WIND:													
	SPEED (MPH)	33	24	32	49	30	33	31	57	32	34	24	23	57
	DIR. (TENS OF DEGS.)	26	22	24	26	11	28	35	02	24	04	20	06	02
	DATE OF OCCURRENCE	05	18	10	06	27+	21	27	03	16	26	27	24	AUG 03
	MAXIMUM 5-SECOND WIND:													
	SPEED (MPH)	41	30	39	60	40	43	44	79	45	47	31	28	79
	DIR. (TENS OF DEGS.)	26	23	24	26	29	26	36	02	29	03	20	05	02
	DATE OF OCCURRENCE	05	18+	14+	06	05	21	27	03	29	26	27	24	AUG 03
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	1.96	3.53	1.15	2.30	4.87	2.92	1.46	8.15	3.69	1.73	1.40	1.76	34.92
	GREATEST 24-HOUR (IN.)	0.58	1.11	0.58	1.21	1.43	1.26	0.52	1.81	2.27	0.54	0.44	0.54	2.27
	DATE OF OCCURRENCE	09	21	9	11	26	7-8	20-21	10-11	16	23-24	05-06	24	SEP 16
	NUMBER OF DAYS WITH:													
	PRECIPITATION ≥ 0.01	13	13	6	11	13	11	9	16	9	12	13	13	139
	PRECIPITATION ≥ 0.10	4	9	3	4	8	7	3	10	5	4	4	5	66
	PRECIPITATION ≥ 1.00	0	1	0	1	2	1	0	4	1	0	0	0	10
SNOWFALL	SNOW,ICE PELLETS,HAIL:													
	TOTAL (IN.)													
	GREATEST 24-HOUR (IN.)													
	DATE OF OCCURRENCE													
	MAXIMUM SNOW DEPTH (IN.)	8												
	DATE OF OCCURRENCE	16												
	NUMBER OF DAYS WITH:													
	SNOWFALL ≥ 1.0													

NORMALS, MEANS, AND EXTREMES

MOLINE, IL (MLI)

LATITUDE: 41° 27′ 55″ N LONGITUDE: 90° 31′ 24″ W ELEVATION (FT): GRND: 582 BARO: 605 TIME ZONE: CENTRAL (UTC+ 6) WBAN: 14923

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE F	NORMAL DAILY MAXIMUM	30	28.4	33.7	46.7	61.4	72.8	82.5	85.9	83.5	75.9	64.2	48.4	33.4	59.7
	MEAN DAILY MAXIMUM	54	29.5	34.3	46.3	61.1	72.3	82.1	85.6	83.6	75.9	64.9	47.5	34.3	59.8
	HIGHEST DAILY MAXIMUM	65	69	71	88	93	104	104	105	106	100	93	80	69	106
	YEAR OF OCCURRENCE		1989	1976	1986	1986	1934	1988	1940	1936	1939	1997	1933	1970	AUG 1936
	MEAN OF EXTREME MAXS.	54	51.0	54.6	72.2	82.4	88.7	94.3	95.9	94.7	90.7	82.8	68.7	56.0	77.7
	NORMAL DAILY MINIMUM	30	11.3	15.9	28.1	39.4	49.9	59.6	64.5	61.8	53.3	41.8	30.7	17.5	39.5
	MEAN DAILY MINIMUM	54	12.3	17.1	27.6	39.3	49.8	59.9	64.1	62.2	53.2	42.0	30.0	18.5	39.7
	LOWEST DAILY MINIMUM	65	-27	-28	-19	7	26	39	46	40	24	16	-9	-24	-28
	YEAR OF OCCURRENCE		1979	1996	1960	1982	1966	1993	1971	1986	1942	1988	1976	1989	FEB 1996
	MEAN OF EXTREME MINS.	54	-11.1	-6.6	8.6	23.7	34.2	45.9	51.8	49.4	36.7	26.7	12.1	-4.4	22.2
	NORMAL DRY BULB	30	19.9	24.8	37.4	50.4	61.4	71.1	75.2	72.7	64.7	53.0	39.6	25.4	49.6
	MEAN DRY BULB	54	20.9	25.7	37.0	50.2	61.0	71.0	74.8	73.0	64.5	53.5	38.8	26.3	49.7
	MEAN WET BULB	14	21.0	24.7	34.8	44.4	54.5	64.1	63.5	62.0	58.6	47.2	34.8	25.1	44.6
	MEAN DEW POINT	14	16.1	19.4	28.3	36.9	48.1	59.1	59.9	59.0	54.5	41.5	29.8	20.8	39.4
	NORMAL NO. DAYS WITH:														
	MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.1	1.3	5.0	8.4	5.7	1.8	0.1	0.0	0.0	22.4
	MAXIMUM ≤ 32°	30	18.1	12.6	3.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	2.0	13.2	49.7
	MINIMUM ≤ 32°	30	29.5	25.2	20.6	7.4	0.7	0.0	0.0	0.0	0.2	5.7	18.3	27.3	134.9
	MINIMUM ≤ 0°	30	8.2	4.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	4.0	17.0
H/C	NORMAL HEATING DEG. DAYS	30	1398	1126	856	438	188	10	0	11	73	384	762	1228	6474
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	76	193	316	250	64	12	0	0	911
RH	NORMAL (PERCENT)	30	70	70	68	64	65	66	70	73	73	68	71	74	69
	HOUR 00 LST	30	72	74	74	72	75	76	82	84	83	76	76	76	77
	HOUR 06 LST	30	74	75	78	78	79	80	85	89	88	81	79	78	80
	HOUR 12 LST	30	65	63	60	54	53	53	57	58	57	54	62	69	59
	HOUR 18 LST	30	69	66	62	54	52	53	58	62	66	63	69	73	62
S	PERCENT POSSIBLE SUNSHINE	53	48	50	50	53	57	63	68	66	62	58	42	40	55
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG(VISBY≤1/4 MI)	63	2.2	2.0	2.0	0.7	0.8	0.6	0.7	1.9	1.6	1.8	1.1	1.9	17.3
	THUNDERSTORMS	64	0.3	0.5	2.2	4.4	6.7	8.2	8.2	6.9	4.2	2.4	1.3	0.7	46.0
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	0						5.6						7.2	
	MIDNIGHT-MIDNIGHT (OKTAS)	0													
	MEAN NO. DAYS WITH:														
	CLEAR	1	1.0	2.0	8.0		5.0	9.0							
	PARTLY CLOUDY	0			3.0		3.0	3.0							
	CLOUDY	1	4.0	6.0	7.0		9.0	9.0							
PR	MEAN STATION PRESSURE(IN)	25	29.94	29.92	29.89	29.85	29.82	29.82	29.87	29.86	29.84	29.85	29.40	29.46	29.79
	MEAN SEA-LEVEL PRES. (IN)	14	30.12	30.12	30.04	30.02	30.04	30.02	29.98	30.02	30.04	30.06	30.07	30.13	30.06
WINDS	MEAN SPEED (MPH)	41	10.7	10.5	11.9	11.7	10.0	8.7	5.9	5.7	5.9	6.5	6.7	6.3	8.4
	PREVAIL.DIR(TENS OF DEGS)	26	29	29	29	29	18	18	18	18	18	18	29	29	29
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	2	37	33	41	49	40	33	31	57	32	40	32	25	57
	DIR. (TENS OF DEGS)		21	27	26	26	10	28	35	20	15	26	16	26	20
	YEAR OF OCCURRENCE		1996	1996	1996	1997	1996	1997	1997	1997	1996	1996	1996	1996	AUG 1997
	MAXIMUM 5-SECOND:														
	SPEED (MPH)	2	43	48	52	60	47	43	44	79	45	55	41	33	79
	DIR. (TENS OF DEGS)		21	29	23	26	10	26	36	20	29	26	15	32	20
	YEAR OF OCCURRENCE		1996	1996	1996	1997	1996	1997	1997	1997	1997	1996	1996	1996	AUG 1997
PRECIPITATION	NORMAL (IN)	30	1.54	1.23	2.98	3.90	4.30	4.27	4.95	4.22	4.02	2.93	2.51	2.23	39.08
	MAXIMUM MONTHLY (IN)	68	4.39	3.53	7.43	11.30	11.43	13.21	11.76	15.23	14.18	9.41	6.77	4.99	15.23
	YEAR OF OCCURRENCE		1974	1997	1973	1973	1974	1993	1992	1987	1970	1941	1992	1982	AUG 1987
	MINIMUM MONTHLY (IN)	68	0.31	0.17	0.31	0.68	0.31	1.02	0.41	0.35	0.02	0.01	0.29	0.23	0.01
	YEAR OF OCCURRENCE		1961	1933	1958	1946	1992	1963	1991	1971	1979	1964	1933	1929	OCT 1964
	MAXIMUM IN 24 HOURS (IN)	68	2.07	1.90	2.42	5.81	3.68	5.02	5.41	5.13	6.29	4.89	2.73	3.38	6.29
	YEAR OF OCCURRENCE		1960	1948	1985	1973	1970	1967	1963	1987	1961	1954	1961	1942	SEP 1961
	NORMAL NO. DAYS WITH:														
	PRECIPITATION ≥ 0.01	30	9.4	8.0	11.3	11.1	11.9	9.9	10.1	9.0	8.9	8.6	9.2	10.3	117.7
	PRECIPITATION ≥ 1.00	30	0.3	0.1	0.6	1.0	1.2	1.1	1.4	1.3	1.1	0.8	0.6	0.3	9.8
SNOWFALL	NORMAL (IN)	30	9.0	6.8	6.0	1.6	T	0.0	0.0	0.0	0.0	0.4	2.8	8.1	34.7
	MAXIMUM MONTHLY (IN)	65	26.7	20.7	19.8	13.0	0.3	T	T	0.0	0.1	6.6	15.6	21.7	26.7
	YEAR OF OCCURRENCE		1979	1994	1972	1982	1935	1992	1994		1942	1967	1974	1978	JAN 1979
	MAXIMUM IN 24 HOURS (IN)	63	16.4	10.1	11.0	8.2	0.3	T	T	0.0	0.1	6.5	8.5	11.4	16.4
	YEAR OF OCCURRENCE		1971	1975	1972	1970	1935	1992	1994		1942	1967	1975	1987	JAN 1971
	MAXIMUM SNOW DEPTH (IN)	53	28	17	15	6	0	0	0	0	0	4	8	11	28
	YEAR OF OCCURRENCE		1979	1979	1960	1982						1967	1975	1987	JAN 1979
	NORMAL NO. DAYS WITH:														
	SNOWFALL ≥ 1.0	30	2.9	2.3	1.8	0.4	0.0	0.0	0.0	0.0	0.0	0.1	0.9	2.5	10.9

PRECIPITATION (inches) 1997 MOLINE, ILLINOIS (MLI)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1968	0.80	0.32	1.96	3.57	2.59	3.70	3.91	2.16	5.70	1.09	3.29	2.76	31.85
1969	3.28	0.21	2.25	3.11	3.40	6.97	11.39	2.00	2.50	4.63	0.53	1.52	41.79
1970	0.54	0.57	2.62	4.66	11.07	3.25	6.27	3.61	14.18	1.75	1.25	1.95	51.72
1971	1.79	1.57	1.99	1.86	3.14	2.36	11.22	0.35	4.54	2.64	2.21	4.77	38.44
1972	1.19	1.24	3.73	5.19	4.24	8.66	3.79	8.20	3.29	2.39	2.75	1.98	46.65
1973	2.53	1.94	7.43	11.30	6.96	6.58	2.63	2.30	6.74	3.06	1.15	3.74	56.36
1974	4.39	1.57	2.94	5.08	11.43	8.83	1.73	3.37	1.08	1.99	2.59	1.83	46.83
1975	1.50	1.75	3.30	2.88	3.23	3.50	2.71	3.23	1.99	0.90	2.98	0.98	28.95
1976	0.88	1.11	3.67	4.21	4.13	2.02	3.34	0.60	1.89	2.13	0.65	0.34	24.97
1977	0.87	0.62	4.61	1.57	2.66	5.18	6.04	6.98	4.80	4.09	2.78	1.76	41.96
1978	0.59	0.67	0.78	3.02	4.65	3.50	3.24	2.47	3.91	1.95	3.32	3.17	31.27
1979	2.72	1.02	2.77	4.01	2.86	2.85	4.40	6.94	0.02	2.51	2.13	2.27	34.50
1980	1.31	1.55	1.74	2.34	4.01	4.97	3.46	9.09	2.94	1.63	0.70	2.75	36.49
1981	0.32	2.45	0.69	4.48	1.48	5.51	3.07	6.90	4.20	4.42	2.42	0.72	36.66
1982	2.08	0.45	3.85	3.33	5.03	3.61	8.83	2.89	1.94	3.38	3.64	4.99	44.02
1983	0.55	1.50	2.88	4.88	2.06	5.21	2.79	0.96	5.30	2.36	5.78	2.55	36.82
1984	0.84	0.79	3.45	4.31	4.97	3.75	4.63	1.31	2.32	6.60	2.91	3.51	39.39
1985	1.04	2.80	4.71	2.14	3.46	2.26	3.33	2.76	1.71	8.54	6.35	2.21	41.31
1986	0.38	2.53	1.35	3.15	5.54	5.10	6.34	3.24	5.63	4.23	1.03	1.95	40.47
1987	0.91	0.89	2.57	1.49	3.35	1.54	1.91	15.23	1.11	0.79	3.33	4.46	37.58
1988	1.74	1.08	2.36	1.36	2.32	1.16	1.79	4.89	1.97	2.37	3.14	1.57	25.75
1989	1.21	1.21	1.85	3.62	3.42	3.31	3.10	6.17	5.42	1.18	0.71	0.73	31.93
1990	1.66	1.99	6.68	3.50	7.68	9.59	3.56	6.42	1.04	2.35	2.87	3.07	50.41
1991	1.19	0.43	6.31	3.69	3.87	1.32	0.41	2.06	2.52	5.80	5.03	1.86	34.49
1992	1.18	1.91	1.07	2.88	0.31	2.11	11.76	1.70	4.80	1.49	6.77	3.96	39.94
1993	2.01	0.92	4.87	5.48	3.61	13.21	5.82	7.76	4.11	0.37	1.50	1.13	50.79
1994	1.04	2.69	0.64	2.64	1.67	4.83	5.69	3.40	1.53	1.67	4.71	1.64	32.15
1995	3.26	0.54	1.41	6.19	7.05	2.86	3.07	2.48	1.92	1.83	3.16	0.50	34.27
1996	2.34	1.11	1.49	1.94	9.26	2.35	2.77	2.11	1.10	1.77	0.88	0.71	27.83
1997	1.96	3.53	1.15	2.30	4.87	2.92	1.46	8.15	3.69	1.73	1.40	1.76	34.92
POR= 69 YRS	1.57	1.33	2.64	3.61	4.04	4.35	4.14	3.84	3.47	2.68	2.27	1.78	35.72

WBAN : 14923

AVERAGE TEMPERATURE (°F) 1997 MOLINE, ILLINOIS (MLI)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1968	21.0	22.7	41.9	51.3	57.2	72.1	73.1	73.5	63.1	53.2	37.3	24.5	49.2
1969	17.9	27.9	32.2	51.6	61.7	67.1	75.0	73.7	64.9	51.7	37.9	24.3	48.8
1970	13.1	24.7	33.6	51.8	64.9	70.7	75.7	72.9	65.2	53.9	39.2	28.9	49.6
1971	14.8	25.9	34.7	50.9	58.0	76.6	70.7	71.9	68.7	59.9	40.0	31.6	50.3
1972	18.6	20.7	36.0	48.0	63.0	69.4	74.6	74.0	66.7	50.2	37.3	22.3	48.4
1973	27.1	28.7	45.4	49.7	57.6	72.3	74.9	75.1	65.7	57.3	40.4	23.7	51.5
1974	21.6	26.8	38.5	53.3	58.8	67.5	77.3	70.3	60.4	53.7	40.1	28.6	49.7
1975	24.9	25.0	30.6	45.1	63.8	72.3	75.0	75.1	60.9	56.2	45.0	30.3	50.4
1976	19.1	35.2	41.2	52.9	57.5	70.5	75.8	71.8	63.0	46.8	30.1	19.6	48.6
1977	8.2	27.1	43.6	56.6	68.9	70.0	77.5	71.0	65.5	51.2	38.7	21.7	50.0
1978	12.4	14.1	33.0	50.8	60.2	71.0	74.0	73.2	69.2	51.5	39.2	22.7	47.6
1979	6.3	13.2	36.3	47.4	61.9	71.2	73.5	72.0	64.3	52.1	37.0	31.7	47.2
1980	23.4	19.2	33.5	49.1	62.7	69.2	77.6	75.8	65.7	48.6	39.7	26.6	49.3
1981	23.4	27.1	39.4	54.3	57.5	71.0	73.3	71.2	63.5	49.9	41.1	25.3	49.8
1982	10.6	21.4	34.6	44.7	66.1	66.2	75.4	71.3	64.2	54.7	39.2	35.3	48.6
1983	26.9	32.0	38.9	45.5	57.8	72.9	79.4	79.6	65.6	53.1	42.9	14.0	50.7
1984	19.6	34.5	31.2	49.1	58.2	73.6	73.1	75.2	62.9	55.1	39.3	31.1	50.2
1985	14.3	21.8	42.5	57.1	64.9	69.4	74.2	69.7	66.1	53.6	35.2	14.9	48.6
1986	25.1	22.9	42.5	54.6	63.0	71.7	77.6	68.3	67.3	53.4	34.8	30.0	50.9
1987	25.2	34.4	42.2	52.6	66.8	74.6	79.4	72.9	64.4	47.4	44.0	31.0	52.9
1988	20.2	21.7	38.7	50.6	64.1	73.1	78.2	77.8	67.0	47.3	40.3	29.0	50.7
1989	32.7	17.4	37.0	49.9	58.8	69.2	76.2	72.2	61.9	54.6	38.6	15.6	48.7
1990	32.7	31.3	42.8	50.0	57.3	71.3	74.2	73.7	66.9	51.7	44.2	24.6	51.7
1991	18.4	31.7	41.8	54.2	67.3	74.6	75.3	73.9	64.8	53.3	33.9	31.0	51.7
1992	29.1	34.3	41.3	49.2	61.0	68.6	70.5	67.4	62.5	52.2	37.5	27.4	50.1
1993	24.8	23.5	34.7	48.5	63.0	70.3	75.6	74.9	61.0	51.0	37.2	29.4	49.5
1994	14.7	22.7	39.4	52.2	60.6	72.9	72.9	70.2	66.0	55.6	43.6	33.3	50.3
1995	21.5	26.7	41.2	47.6	59.2	73.0	76.5	73.6	62.2	52.5	32.2	25.9	49.8
1996	20.0	25.1	32.7	47.5	58.2	70.8	72.1	72.9	63.4	53.4	32.6	24.8	47.8
1997	17.2	29.0	40.3	46.9	56.1	71.2	74.8	70.8	65.7	54.2	36.7	28.9	49.3
POR= 66 YRS	21.4	26.1	36.8	50.3	61.2	71.2	75.2	73.1	64.9	53.5	38.9	26.6	49.9

HEATING DEGREE DAYS (base 65°F) 1997 MOLINE, ILLINOIS (MLI)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1968-69	8	15	96	404	826	1247	1458	1032	1010	398	172	57	6723
1969-70	0	0	80	445	805	1253	1607	1120	967	419	118	21	6835
1970-71	0	2	92	350	764	1111	1556	1088	931	425	242	0	6561
1971-72	17	3	94	195	740	1026	1434	1280	893	504	155	25	6366
1972-73	8	7	80	459	824	1319	1170	1013	598	452	223	1	6154
1973-74	0	0	78	258	733	1274	1338	1061	812	360	235	32	6181
1974-75	0	8	180	349	739	1122	1235	1114	1058	593	117	14	6529
1975-76	9	0	162	297	594	1072	1413	855	731	385	235	2	5755
1976-77	0	5	123	569	1038	1403	1755	1059	656	286	54	15	6963
1977-78	0	5	50	420	780	1337	1625	1417	986	423	229	13	7285
1978-79	1	4	59	415	767	1305	1820	1445	884	521	172	12	7405
1979-80	5	22	95	415	831	1027	1280	1324	966	481	129	27	6602
1980-81	0	1	77	503	755	1180	1281	1055	783	322	253	3	6213
1981-82	12	9	91	459	710	1226	1682	1214	936	604	62	35	7040
1982-83	0	14	110	333	765	916	1175	917	802	578	228	17	5855
1983-84	1	0	110	377	654	1578	1406	880	1039	482	225	2	6754
1984-85	3	4	171	303	761	1042	1568	1203	692	293	66	25	6131
1985-86	0	4	133	347	888	1546	1231	1174	705	338	104	9	6479
1986-87	0	30	55	358	898	1078	1227	850	701	385	101	4	5687
1987-88	0	23	84	540	627	1046	1384	1250	807	427	90	15	6293
1988-89	1	9	45	544	736	1109	998	1326	863	461	240	28	6360
1989-90	0	4	138	334	785	1527	995	937	691	483	241	18	6153
1990-91	2	0	97	422	622	1248	1437	928	719	339	107	0	5921
1991-92	0	0	147	370	927	1049	1107	884	726	473	181	27	5891
1992-93	3	33	147	405	819	1158	1241	1156	936	488	116	53	6555
1993-94	0	1	153	433	827	1096	1557	1178	789	403	175	13	6625
1994-95	0	14	74	298	637	973	1343	1065	733	517	182	8	5844
1995-96	1	0	146	385	975	1206	1387	1151	995	519	253	27	7045
1996-97	0	0	110	356	966	1238	1474	1000	757	537	277	4	6719
1997-	5	2	61	395	838	1110							

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COOLING DEGREE DAYS (base 65°F) 1997 MOLINE, ILLINOIS (MLI)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	0	0	0	1	77	130	320	276	86	41	0	0	931
1970	0	0	0	32	119	198	341	256	105	15	0	0	1066
1971	0	0	0	9	32	355	203	225	212	44	0	0	1080
1972	0	0	0	3	102	165	312	294	138	6	0	0	1020
1973	0	0	0	2	2	226	312	323	103	27	0	0	995
1974	0	0	0	17	50	113	389	180	45	3	0	0	797
1975	0	0	0	1	85	241	325	319	44	29	0	0	1044
1976	0	0	0	26	12	175	341	221	72	13	0	0	860
1977	0	0	0	44	182	173	397	199	73	0	0	0	1068
1978	0	0	1	0	87	202	288	267	195	5	0	0	1045
1979	0	0	0	0	83	206	272	245	79	22	0	0	907
1980	0	0	0	11	65	158	395	343	107	1	0	0	1080
1981	0	0	0	8	27	191	275	209	50	0	0	0	760
1982	0	0	0	0	102	78	327	215	95	20	0	0	837
1983	0	0	0	1	12	260	453	459	138	14	0	0	1337
1984	0	0	0	9	21	268	261	327	116	3	0	0	1005
1985	0	0	0	64	71	165	292	154	172	0	0	0	918
1986	0	0	12	31	48	216	396	143	133	4	0	0	983
1987	0	0	0	20	162	298	453	277	71	0	3	0	1284
1988	0	0	0	0	69	263	416	410	112	3	0	0	1273
1989	0	0	4	13	53	159	356	236	52	20	0	0	893
1990	0	0	10	40	8	216	294	280	159	18	3	0	1028
1991	0	0	6	21	183	297	324	284	149	16	0	0	1280
1992	0	0	0	6	61	143	181	115	77	13	0	0	596
1993	0	0	0	0	60	217	335	317	39	8	0	0	976
1994	0	0	0	26	43	256	250	182	114	15	1	0	887
1995	0	0	0	0	11	256	365	427	69	6	0	0	1134
1996	0	0	0	0	46	208	229	253	69	6	0	0	811
1997	0	0	0	1	11	196	315	186	87	66	0	0	862

SNOWFALL (inches) 1997 MOLINE, ILLINOIS (MLI)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1968-69	0.0	0.0	0.0	T	5.9	5.4	6.2	0.9	5.6	0.0	T	0.0	24.0
1969-70	0.0	0.0	0.0	0.0	1.5	15.4	7.2	6.1	12.7	8.3	0.0	0.0	51.2
1970-71	0.0	0.0	0.0	0.0	0.2	2.2	17.7	2.6	7.8	T	0.0	0.0	30.5
1971-72	0.0	0.0	0.0	0.0	5.9	0.3	11.8	13.7	19.8	2.6	0.0	0.0	54.1
1972-73	0.0	0.0	0.0	2.0	6.7	6.6	0.4	8.6	0.5	0.9	0.0	0.0	25.7
1973-74	0.0	0.0	0.0	0.0	T	11.4	12.7	7.4	3.0	0.6	0.0	0.0	35.1
1974-75	0.0	0.0	0.0	0.0	15.6	8.8	7.6	19.3	12.2	6.2	0.0	0.0	69.7
1975-76	0.0	0.0	0.0	0.0	9.9	2.5	8.6	0.1	0.6	0.0	T	0.0	21.7
1976-77	0.0	0.0	0.0	0.0	7.7	4.1	12.3	2.5	10.8	1.0	0.0	0.0	38.4
1977-78	0.0	0.0	0.0	0.0	4.8	20.8	6.1	6.8	6.5	T	0.0	0.0	45.0
1978-79	0.0	0.0	0.0	0.0	7.1	21.7	26.7	4.5	3.4	0.6	0.0	0.0	64.0
1979-80	0.0	0.0	0.0	T	1.9	0.8	4.2	13.1	7.5	9.5	0.0	0.0	37.0
1980-81	0.0	0.0	0.0	2.4	1.1	4.5	5.3	5.6	T	0.0	0.0	0.0	18.9
1981-82	0.0	0.0	0.0	T	3.3	4.3	13.6	4.5	6.6	13.0	0.0	0.0	45.3
1982-83	0.0	0.0	0.0	0.0	T	0.5	4.7	6.2	12.7	0.7	0.0	0.0	24.8
1983-84	0.0	0.0	0.0	T	0.9	18.9	9.9	1.9	13.6	0.1	0.0	0.0	45.3
1984-85	0.0	0.0	0.0	0.0	T	9.3	13.4	7.5	0.2	T	0.0	0.0	30.4
1985-86	0.0	0.0	0.0	0.0	3.1	11.5	3.7	7.8	0.2	0.4	0.0	0.0	26.7
1986-87	0.0	0.0	0.0	0.0	2.2	0.2	9.1	T	0.1	0.0	0.0	0.0	11.6
1987-88	0.0	0.0	0.0	T	0.6	15.9	2.7	16.4	0.5	0.0	0.0	0.0	36.1
1988-89	0.0	0.0	0.0	T	1.0	2.5	T	13.8	0.4	T	T	0.0	17.7
1989-90	0.0	0.0	0.0	T	0.1	8.2	6.3	10.3	T	T	0.0	T	24.9
1990-91	0.0	0.0	0.0	0.0	T	7.5	11.1	1.5	5.4	0.0	0.0	0.0	25.5
1991-92	0.0	0.0	T	T	1.0	6.7	5.2	1.4	3.6	T	0.0	T	17.9
1992-93	0.0	0.0	0.0	T	0.6	7.2	7.0	6.4	3.0	1.0	T	0.0	25.2
1993-94	0.0	0.0	0.0	T	3.6	5.2	13.4	20.7	T	0.2	0.0	0.0	43.1
1994-95	T	0.0	0.0	0.0	T	1.8	22.2	0.9	3.5	0.1	T	0.0	28.5
1995-96	0.0	0.0	0.0	0.0	3.0	6.8	13.7	1.4	2.1	T	0.0	0.0	27.8
1996-97	0.0	0.0	0.0	0.0	2.1	6.9							
1997-													
POR= 64 YRS	T	0.0	0.0	0.2	2.2	7.0	8.1	5.9	5.6	1.0	0.0	T	30.0

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REFERENCE NOTES:

PAGE 1:
THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).

PAGE 2 AND 3:
H/C INDICATES HEATING AND COOLING DEGREE DAYS.
RH INDICATES RELATIVE HUMIDITY
W/O INDICATES WEATHER AND OBSTRUCTIONS
S INDICATES SUNSHINE.
PR INDICATES PRESSURE.
CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).

GENERAL:
T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE.
+ INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES.
BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.
NORMALS ARE 30-YEAR AVERAGES (1961 - 1990).
ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM.
PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH.
POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING.
WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED.
0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05.
CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET.
THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.

GENERAL CONTINUED:
CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED.
WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH.
RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION.
AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2.
SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL.
A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65° F.
DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR.
DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY.
WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.

ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.

1997
MOLINE,
ILLINOIS (MLI)

The locality is in the heart of the Corn Belt. Agricultural crops include many important staple products in addition to corn. Cattle, hogs, horses, and poultry produced in Iowa and Illinois rank high in the nation. Close to the Mississippi River there is large scale truck gardening and considerable dairying. Field production of grains and livestock attains greater development farther away from the large streams, where the countryside is rolling prairie. Damaging droughts are not common. This, together with the variety of agricultural products, has led to designating the section as the Bread Basket of America.

The climate is favorable for many industries as evidenced by the large number and variety of manufacturing and other enterprises which have located and developed in the community. Among these are some of the largest producers of agricultural machinery in the world.

This area has a temperate continental climate, with a wide temperature range throughout the year. There are some intensely hot, unusually humid, periods in summer and severely cold periods in winter. Maxima of 90 degrees or more have occurred in summer as frequently as 55 days and zero or lower readings have occurred during every winter.

Freezing temperatures have occurred as late in spring as late May and as early in autumn as late September. Precipitation is usually well distributed throughout the year with the greatest amounts falling during the 177-day average crop growing season. Substantial weather changes frequently occur at three or four day intervals, as a direct result of proximity to some of the most important storm tracks.

STATION LOCATION

MOLINE, ILLINOIS

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE SEA LEVEL: GROUND TEMPERATURE SITE	ELEVATION ABOVE GROUND: WIND INSTRUMENTS	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	RAIN GAGE TIPPING BUCKET	WEIGHING RAIN GAGE	8 INCH RAIN GAGE	HYGROTHERMOMETER	AUTOMATIC OBSERVING EQUIPMENT *	* Type (M = AMOS, T = AUTOB, S = ASOS, W = AWOS)
NE Corner, Moline AP 4.5 miles S of Moline Post Office	10/1/26	12/27/39	NA	41°27'	90°31'	589	53	3	3				3			
Administration Building Quad City Airport	12/27/39	4/3/61	1200 ft. W	41°27'	90°31'	589 h582	62 f25	5 b36 c5 d36	5 a36 c5 d36	Unk		4 e5	15	g4		a - Moved to roof site 12/1/54. b - Moved to roof site 5/31/55. c - Moved to field site 6/7/56. d - Moved to roof site 4/16/58. e - Effective 4/16/58. f - Moved to field site 11/13/58. g - Telepsychrometer (5') 6/7/56-3/1/60. Hygro. comm. 3/1/60. h - Effective 3/1/60.
Terminal Building Quad City Airport	4/4/61	Present	200 ft. SE	41°27'	90°31'	582	i25 n30	17 n4	17 n4	27 n7	NA k16 n4	i5 j16 n4	15 n4	i4 m4 n4	NA S	i - Not moved 4/4/61. j - Effective 7/22/63. k - Added 6/1/64. m - Type change 6/27/85. n - Moved to field site 1/5/91. ASOS Commissioned 07/01/95

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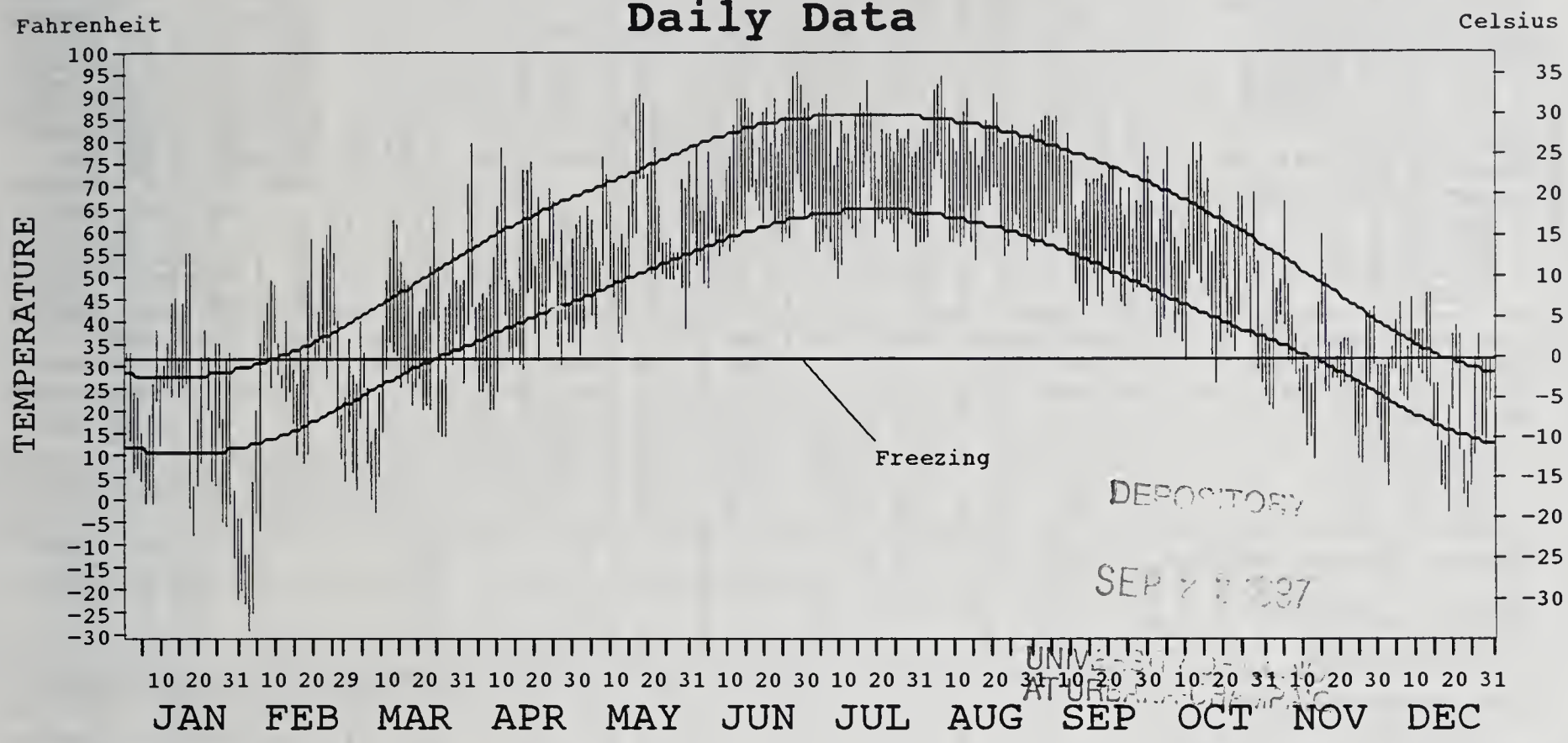
MAP

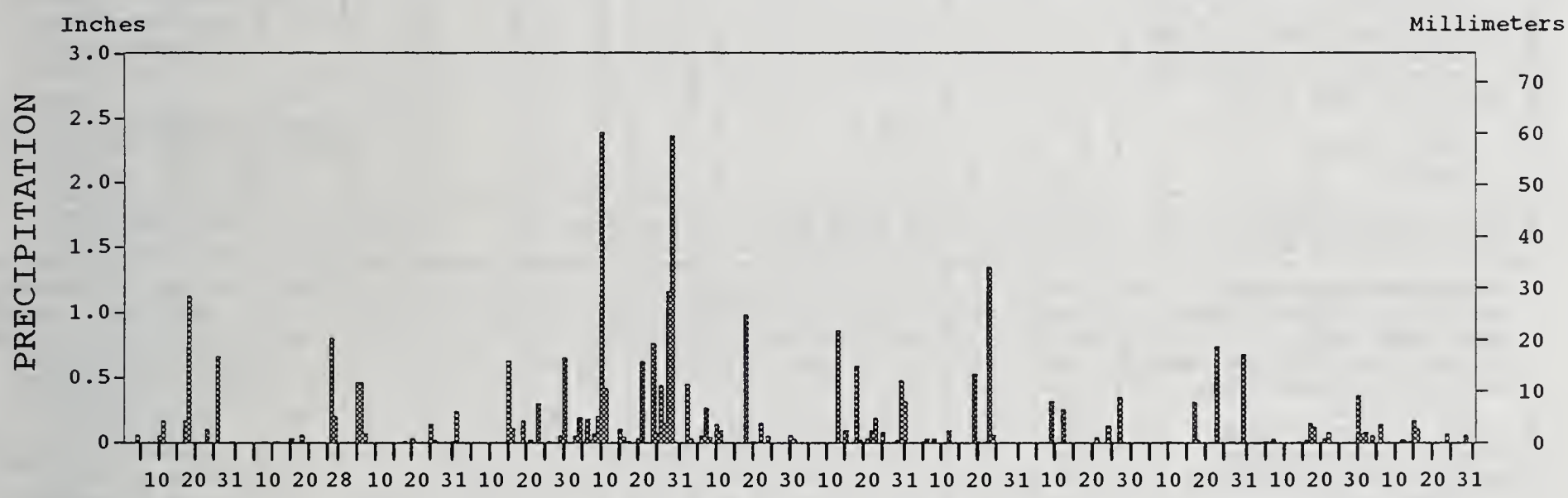
1996 LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

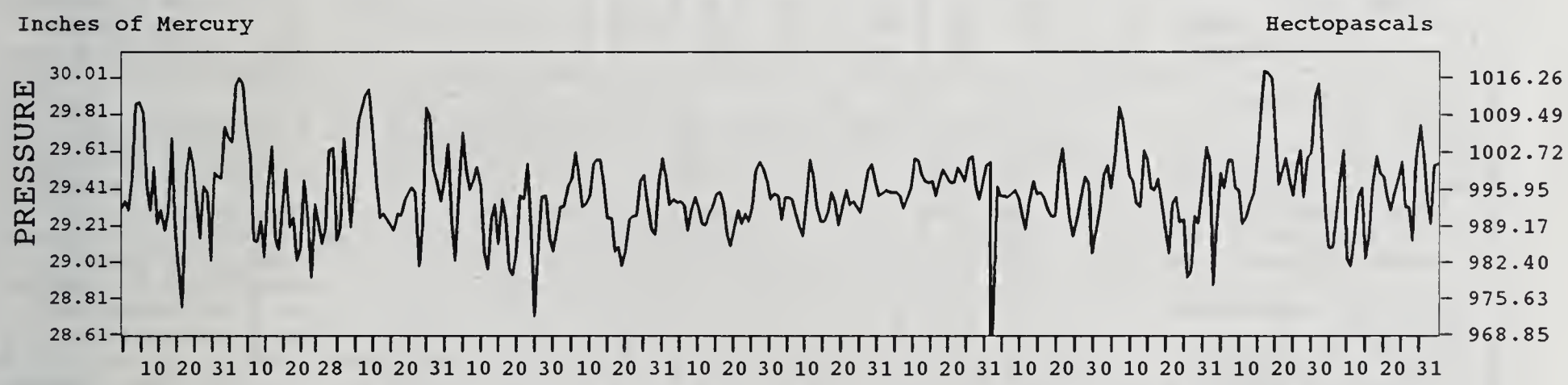
ISSN 0198-186

MOLINE,
ILLINOIS (MLI)

Daily Data







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NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

ACTING DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 1996

MOLINE, IL (MLI)

LATITUDE: 41° 27′ 55″ N | LONGITUDE: 90° 31′ 24″ W | ELEVATION (FT): GRND: 582 BARO: 605 | TIME ZONE: CENTRAL (UTC+ 6) | WBAN: 14923

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	29.5	34.2	43.4	59.3	67.1	80.7	83.1	83.4	74.3	64.4	39.7	31.8	57.6
	HIGHEST DAILY MAXIMUM	56	62	66	80	91	96	94	95	86	80	67	47	96
	DATE OF OCCURRENCE	18+	25	24	3	18	29	18	7	7 +	15+	6	15+	JUN 29
	MEAN DAILY MINIMUM	10.6	16.0	21.9	35.6	49.2	60.9	61.0	62.4	52.4	42.4	25.4	17.8	38.0
	LOWEST DAILY MINIMUM	-21	-28	-2	21	33	48	50	54	42	27	9	-2	-28
	DATE OF OCCURRENCE	31	3	8	09+	2	5	10	30+	14	31+	27	20	FEB 3
	AVERAGE DRY BULB	20.0	25.1	32.7	47.5	58.2	70.8	72.1	72.9	63.4	53.4	32.6	24.8	47.8
	MEAN WET BULB	19.0	23.6	28.3	41.4	53.9	65.1			57.7	48.2	30.1	24.0	
	MEAN DEW POINT	14.7	17.9	20.6	32.8	50.0	61.5			53.9	42.8	25.2	20.8	
	NUMBER OF DAYS WITH:													
	MAXIMUM ≥ 90°	0	0	0	0	2	8	3	5	0	0	0	0	18
	MAXIMUM ≤ 32°	15	11	7	0	0	0	0	0	0	0	8	16	57
	MINIMUM ≤ 32°	31	23	24	13	0	0	0	0	0	4	25	30	150
	MINIMUM ≤ 0°	9	6	1	0	0	0	0	0	0	0	0	2	18
H/C	HEATING DEGREE DAYS	1387	1151	995	519	253	27	0	0	110	356	966	1238	7002
	COOLING DEGREE DAYS	0	0	0	0	46	208	229	253	69	6	0	0	811
RH	MEAN (PERCENT)	79	73	64	59	76	75	72	77	75	70	75	84	73
	HOUR 00 LST	81	77	73	68	84	85	87	89	86	77	80	84	81
	HOUR 06 LST	84	81	75	77	89	86	86	93	93	84	81	87	85
	HOUR 12 LST	76	67	53	50	68	62	57	61	58	59	69	80	63
	HOUR 18 LST	76	70	55	45	68	65	60	66	65	66	71	82	66
S	PERCENT POSSIBLE SUNSHINE	48	47	63										
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG(VISBY ≤ 1/4 MI)	2	4	0	0	2	3	0	0	3	0	0	6	20
	THUNDERSTORMS	0	2	1	2	13	4	4	2	3	3	0	0	34
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)				3	4	3							
	SATELLITE (> 12,000 FT.)			2			2							
	MIDNIGHT-MIDNIGHT: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)				3	4	3							
	SATELLITE (> 12,000 FT.)			2										
	NUMBER OF DAYS WITH:													
	CLEAR	1	2	8		5	9							
	PARTLY CLOUDY			3		3	3							
	CLOUDY	4	6	7		9	9							
PR	MEAN STATION PRESS. (IN.)	29.39	29.36	29.43	29.25	29.33	29.30	29.34		29.34	29.36	29.54	29.36	
	MEAN SEA-LEVEL PRESS. (IN.)	30.06	30.02	30.08	30.89	30.96	30.93			29.97	30.00	30.20	30.02	
WINDS	RESULTANT SPEED (MPH)	1.2	4.4	1.4	2.1	3.3	1.8	0.7		0.3	1.4	0.9	2.2	
	RES. DIR. (TENS OF DEGS.)	29	28	32	26	09	24	02		12	01	07	29	
	MEAN SPEED (MPH)	9.7	9.7	10.5	10.9	9.4	6.2	6.3	5.4	5.6	9.0	8.6	8.9	8.3
	PREVAIL.DIR.(TENS OF DEGS.)	01	31	32	21	08	27	24	20	11	21	32	29	28
	MAXIMUM 2-MINUTE WIND:													
	SPEED (MPH)	37	33	41	38	40	31	25	24	32	40	32	25	41
	DIR. (TENS OF DEGS.)	21	27	26	26	10	24	02	22	15	26	16	26	26
	DATE OF OCCURRENCE	26	10	25	18	24	17	22	05	23	30+	16	15	MAR 25
	MAXIMUM 5-SECOND WIND:													
	SPEED (MPH)	43	48	52	46	47	35	32	29	38	55	41	33	55
	DIR. (TENS OF DEGS.)	21	29	23	25	10	24	27	21	15	26	15	32	26
	DATE OF OCCURRENCE	26	10	25	18	24	17	30	05	23	29	16	08	OCT 29
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	2.34	1.11	1.49	1.94	9.26	2.35	2.77	2.11	1.10	1.77	0.88	0.71	27.83
	GREATEST 24-HOUR (IN.)	1.16	0.95	0.92	0.74	2.39	0.98	0.86	1.41	0.35	0.74	0.36	0.17	2.39
	DATE OF OCCURRENCE	17-18	26-27	4- 5	14-15	27-28	17	12	22-23	26	22	29	14	MAY 27-28
	NUMBER OF DAYS WITH:													
	PRECIPITATION ≥ 0.01	8	6	9	8	19	13	11	8	5	6	10	9	112
	PRECIPITATION ≥ 0.10	5	2	4	5	12	5	5	2	4	3	3	3	53
	PRECIPITATION ≥ 1.00	1	0	0	0	3	0	0	1	0	0	0	0	5
SNOWFALL	SNOW,ICE PELLETS,HAIL:													
	TOTAL (IN.)	13.7	1.4	2.1	T	0.0	0.0	0.0	0.0	0.0	0.0	2.1	6.9	26.2
	GREATEST 24-HOUR (IN.)	6.7	0.9	1.2	T	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.1	6.7
	DATE OF OCCURRENCE	26-27	18	6	15+							21	01	JAN 26-27
	MAXIMUM SNOW DEPTH (IN.)	6	5	1	0	0	0	0	0	0	0	T	3	6
	DATE OF OCCURRENCE	26	07+	09+								30+	01	JAN 26
	NUMBER OF DAYS WITH:													
	SNOWFALL ≥ 1.0	3	0	1	0	0	0	0	0	0	0	0	3	7

NORMALS, MEANS, AND EXTREMES FOR 1996

MOLINE, IL (MLI)

LATITUDE: 41° 27′ 55″ N | LONGITUDE: 90° 31′ 24″ W | ELEVATION (FT): GRND: 582 BARO: 605 | TIME ZONE: CENTRAL (UTC+ 6) | WBAN: 14923

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	28.4	33.7	46.7	61.4	72.8	82.5	85.9	83.5	75.9	64.2	48.4	33.4	59.7
	MEAN DAILY MAXIMUM	53	29.5	34.3	46.2	61.2	72.4	82.1	85.6	83.7	75.9	64.9	47.6	34.3	59.8
	HIGHEST DAILY MAXIMUM	64	69	71	88	93	104	104	105	106	100	92	80	69	106
	YEAR OF OCCURRENCE		1989	1976	1986	1986	1934	1988	1940	1936	1939	1963	1933	1970	AUG 1936
	MEAN OF EXTREME MAXS.	53	50.8	54.6	72.1	82.5	88.7	94.3	95.9	94.7	90.7	82.6	68.9	56.1	77.7
	NORMAL DAILY MINIMUM	30	11.3	15.9	28.1	39.4	49.9	59.6	64.5	61.8	53.3	41.8	30.7	17.5	39.5
	MEAN DAILY MINIMUM	53	12.4	17.0	27.6	39.4	49.9	59.9	64.1	62.2	53.2	42.0	30.0	18.4	39.7
	LOWEST DAILY MINIMUM	64	-27	-28	-19	7	26	39	46	40	24	16	-9	-24	-28
	YEAR OF OCCURRENCE		1979	1996	1960	1982	1966	1993	1971	1986	1942	1988	1976	1989	FEB 1996
	MEAN OF EXTREME MINS.	53	-11.0	-6.8	8.6	23.8	34.3	45.8	51.9	49.4	36.6	26.7	12.0	-4.6	22.2
	NORMAL DRY BULB	30	19.9	24.8	37.4	50.4	61.4	71.1	75.2	72.7	64.7	53.0	39.6	25.4	49.6
	MEAN DRY BULB	53	21.0	25.6	36.9	50.3	61.1	71.0	74.8	73.0	64.5	53.5	38.8	26.3	49.7
	MEAN WET BULB	13	21.4	24.5	34.8	44.7	54.9	64.1	63.1	61.7	58.4	47.0	34.8	24.9	44.5
	MEAN DEW POINT	13	16.4	19.0	28.3	37.2	48.6	59.1	59.6	58.6	54.3	41.2	29.7	20.4	39.4
	NORMAL NO. DAYS WITH:														
	MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.1	1.3	5.0	8.4	5.7	1.8	0.1	0.0	0.0	22.4
	MAXIMUM ≤ 32°	30	18.1	12.6	3.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	2.0	13.2	49.7
	MINIMUM ≤ 32°	30	29.5	25.2	20.6	7.4	0.7	0.0	0.0	0.0	0.2	5.7	18.3	27.3	134.9
	MINIMUM ≤ 0°	30	8.2	4.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	4.0	17.0
H/C	NORMAL HEATING DEG. DAYS	30	1398	1126	856	438	188	10	0	11	73	384	762	1228	6474
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	76	193	316	250	64	12	0	0	911
RH	NORMAL (PERCENT)	30	70	70	68	64	65	66	70	73	73	68	71	74	69
	HOUR 00 LST	30	72	74	74	72	75	76	82	84	83	76	76	76	77
	HOUR 06 LST	30	74	75	78	78	79	80	85	89	88	81	79	78	80
	HOUR 12 LST	30	65	63	60	54	53	53	57	58	57	54	62	69	59
	HOUR 18 LST	30	69	66	62	54	52	53	58	62	66	63	69	73	62
S	PERCENT POSSIBLE SUNSHINE	53	48	50	50	53	57	63	68	66	62	58	42	40	55
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG(VISBY ≤ 1/4 MI)	62	2.2	2.0	2.0	0.7	0.8	0.6	0.7	1.9	1.6	1.8	1.1	1.9	17.3
	THUNDERSTORMS	63	0.3	0.5	2.2	4.5	6.8	8.3	8.3	7.0	4.3	2.4	1.3	0.7	46.6
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)							5.6						7.2	
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH:														
	CLEAR	1	1.0	2.0	8.0		5.0	9.0							
	PARTLY CLOUDY				3.0		3.0	3.0							
	CLOUDY	1	4.0	6.0	7.0		9.0	9.0							
PR	MEAN STATION PRESSURE(IN.)	24	29.46	29.46	29.36	29.32	29.32	29.32	29.36	29.39	29.41	29.42	29.40	29.46	29.39
	MEAN SEA-LEVEL PRES. (IN.)	13	30.12	30.12	30.04	30.02	30.05	30.03	29.98	30.02	30.04	30.06	30.07	30.14	30.06
WINDS	MEAN SPEED (MPH)	40	10.7	10.6	11.9	11.8	10.0	8.7	7.5	7.1	7.9	9.2	10.7	10.5	9.7
	PREVAIL.DIR(TENS OF DEGS.)	25	29	29	29	30	18	18	18	18	18	18	29	29	29
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	1	37	33	41	38	40	31	25	24	32	40	32	25	41
	DIR. (TENS OF DEGS.)		21	27	26	26	10	24	20	22	15	26	16	26	26
	YEAR OF OCCURRENCE		1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	MAR 1996
	MAXIMUM 5-SECOND:														
	SPEED (MPH)	1	43	48	52	46	47	35	32	29	38	55	41	33	55
	DIR. (TENS OF DEGS.)		21	29	23	25	10	24	27	21	15	26	15	32	26
	YEAR OF OCCURRENCE		1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	OCT 1996
PRECIPITATION	NORMAL TOTAL (IN.)	30	1.54	1.23	2.98	3.90	4.30	4.27	4.95	4.22	4.02	2.93	2.51	2.23	39.08
	MAXIMUM TOTAL (IN.)	67	4.39	2.80	7.43	11.30	11.43	13.21	11.76	15.23	14.18	9.41	6.77	4.99	15.23
	YEAR OF OCCURRENCE		1974	1985	1973	1973	1974	1993	1992	1987	1970	1941	1992	1982	AUG 1987
	MINIMUM TOTAL (IN.)	67	0.31	0.17	0.31	0.68	0.31	1.02	0.41	0.35	0.02	0.01	0.29	0.23	0.01
	YEAR OF OCCURRENCE		1961	1933	1958	1946	1992	1963	1991	1971	1979	1964	1933	1929	OCT 1964
	MAXIMUM IN 24 HOURS (IN.)	67	2.07	1.90	2.42	5.81	3.68	5.02	5.41	5.13	6.29	4.89	2.73	3.38	6.29
	YEAR OF OCCURRENCE		1960	1948	1985	1973	1970	1967	1963	1987	1961	1954	1961	1942	SEP 1961
	NORMAL NO. DAYS WITH:														
	PRECIPITATION ≥ 0.01	30	9.4	8.0	11.3	11.1	11.9	9.9	10.1	9.0	8.9	8.6	9.2	10.3	117.7
	PRECIPITATION ≥ 1.00	30	0.3	0.1	0.6	1.0	1.2	1.1	1.4	1.3	1.1	0.8	0.6	0.3	9.8
SNOWFALL	NORMAL TOTAL (IN.)	30	9.0	6.8	6.0	1.6	T	0.0	0.0	0.0	0.0	0.4	2.8	8.1	34.7
	MAXIMUM TOTAL (IN.)	65	26.7	20.7	19.8	13.0	0.3	T	T	0.0	0.1	6.6	15.6	21.7	26.7
	YEAR OF OCCURRENCE		1979	1994	1972	1982	1935	1992	1994		1942	1967	1974	1978	JAN 1979
	MAXIMUM IN 24 HOURS (IN.)	63	16.4	10.1	11.0	8.2	0.3	T	T	0.0	0.1	6.5	8.5	11.4	16.4
	YEAR OF OCCURRENCE		1971	1975	1972	1970	1935	1992	1994		1942	1967	1975	1987	JAN 1971
	MAXIMUM SNOW DEPTH (IN.)	52	28	17	15	6	0	0	0	0	0	4	8	11	28
	YEAR OF OCCURRENCE		1979	1979	1960	1982						1967	1975	1987	JAN 1979
	NORMAL NO. DAYS WITH:														
	SNOWFALL ≥ 1.0	30	2.9	2.3	1.8	0.4	0.0	0.0	0.0	0.0	0.0	0.1	0.9	2.5	10.9

PRECIPITATION (inches) 1996 MOLINE, ILLINOIS (MLI)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1967	2.00	1.11	1.68	4.91	1.70	8.15	4.15	3.62	4.99	6.23	2.26	1.56	42.36
1968	0.80	0.32	1.96	3.57	2.59	3.70	3.91	2.16	5.70	1.09	3.29	2.76	31.85
1969	3.28	0.21	2.25	3.11	3.40	6.97	11.39	2.00	2.50	4.63	0.53	1.52	41.79
1970	0.54	0.57	2.62	4.66	11.07	3.25	6.27	3.61	14.18	1.75	1.25	1.95	51.72
1971	1.79	1.57	1.99	1.86	3.14	2.36	11.22	0.35	4.54	2.64	2.21	4.77	38.44
1972	1.19	1.24	3.73	5.19	4.24	8.66	3.79	8.20	3.29	2.39	2.75	1.98	46.65
1973	2.53	1.94	7.43	11.30	6.96	6.58	2.63	2.30	6.74	3.06	1.15	3.74	56.36
1974	4.39	1.57	2.94	5.08	11.43	8.83	1.73	3.37	1.08	1.99	2.59	1.83	46.83
1975	1.50	1.75	3.30	2.88	3.23	3.50	2.71	3.23	1.99	0.90	2.98	0.98	28.95
1976	0.88	1.11	3.67	4.21	4.13	2.02	3.34	0.60	1.89	2.13	0.65	0.34	24.97
1977	0.87	0.62	4.61	1.57	2.66	5.18	6.04	6.98	4.80	4.09	2.78	1.76	41.96
1978	0.59	0.67	0.78	3.02	4.65	3.50	3.24	2.47	3.91	1.95	3.32	3.17	31.27
1979	2.72	1.02	2.77	4.01	2.86	2.85	4.40	6.94	0.02	2.51	2.13	2.27	34.50
1980	1.31	1.55	1.74	2.34	4.01	4.97	3.46	9.09	2.94	1.63	0.70	2.75	36.49
1981	0.32	2.45	0.69	4.48	1.48	5.51	3.07	6.90	4.20	4.42	2.42	0.72	36.66
1982	2.08	0.45	3.85	3.33	5.03	3.61	8.83	2.89	1.94	3.38	3.64	4.99	44.02
1983	0.55	1.50	2.88	4.88	2.06	5.21	2.79	0.96	5.30	2.36	5.78	2.55	36.82
1984	0.84	0.79	3.45	4.31	4.97	3.75	4.63	1.31	2.32	6.60	2.91	3.51	39.39
1985	1.04	2.80	4.71	2.14	3.46	2.26	3.33	2.76	1.71	8.54	6.35	2.21	41.31
1986	0.38	2.53	1.35	3.15	5.54	5.10	6.34	3.24	5.63	4.23	1.03	1.95	40.47
1987	0.91	0.89	2.57	1.49	3.35	1.54	1.91	15.23	1.11	0.79	3.33	4.46	37.58
1988	1.74	1.08	2.36	1.36	2.32	1.16	1.79	4.89	1.97	2.37	3.14	1.57	25.75
1989	1.21	1.21	1.85	3.62	3.42	3.31	3.10	6.17	5.42	1.18	0.71	0.73	31.93
1990	1.66	1.99	6.68	3.50	7.68	9.59	3.56	6.42	1.04	2.35	2.87	3.07	50.41
1991	1.19	0.43	6.31	3.69	3.87	1.32	0.41	2.06	2.52	5.80	5.03	1.86	34.49
1992	1.18	1.91	1.07	2.88	0.31	2.11	11.76	1.70	4.80	1.49	6.77	3.96	39.94
1993	2.01	0.92	4.87	5.48	3.61	13.21	5.82	7.76	4.11	0.37	1.50	1.13	50.79
1994	1.04	2.69	0.64	2.64	1.67	4.83	5.69	3.40	1.53	1.67	4.71	1.64	32.15
1995	3.26	0.54	1.41	6.19	7.05	2.86	3.07	2.48	1.92	1.83	3.16	0.50	34.27
1996	2.34	1.11	1.49	1.94	9.26	2.35	2.77	2.11	1.10	1.77	0.88	0.71	27.83
POR= 68 YRS	1.56	1.30	2.66	3.63	4.03	4.37	4.18	3.78	3.47	2.69	2.28	1.78	35.73

WBAN : 14923

AVERAGE TEMPERATURE (°F) 1996 MOLINE, ILLINOIS (MLI)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1967	26.0	18.7	39.0	51.6	56.4	70.9	71.4	67.7	62.1	52.1	36.1	28.5	48.4
1968	21.0	22.7	41.9	51.3	57.2	72.1	73.1	73.5	63.1	53.2	37.3	24.5	49.2
1969	17.9	27.9	32.2	51.6	61.7	67.1	75.0	73.7	64.9	51.7	37.9	24.3	48.8
1970	13.1	24.7	33.6	51.8	64.9	70.7	75.7	72.9	65.2	53.9	39.2	28.9	49.6
1971	14.8	25.9	34.7	50.9	58.0	76.6	70.7	71.9	68.7	59.9	40.0	31.6	50.3
1972	18.6	20.7	36.0	48.0	63.0	69.4	74.6	74.0	66.7	50.2	37.3	22.3	48.4
1973	27.1	28.7	45.4	49.7	57.6	72.3	74.9	75.1	65.7	57.3	40.4	23.7	51.5
1974	21.6	26.8	38.5	53.3	58.8	67.5	77.3	70.3	60.4	53.7	40.1	28.6	49.7
1975	24.9	25.0	30.6	45.1	63.8	72.3	75.0	75.1	60.9	56.2	45.0	30.3	50.4
1976	19.1	35.2	41.2	52.9	57.5	70.5	75.8	71.8	63.0	46.8	30.1	19.6	48.6
1977	8.2	27.1	43.6	56.6	68.9	70.0	77.5	71.0	65.5	51.2	38.7	21.7	50.0
1978	12.4	14.1	33.0	50.8	60.2	71.0	74.0	73.2	69.2	51.5	39.2	22.7	47.6
1979	6.3	13.2	36.3	47.4	61.9	71.2	73.5	72.0	64.3	52.1	37.0	31.7	47.2
1980	23.4	19.2	33.5	49.1	62.7	69.2	77.6	75.8	65.7	48.6	39.7	26.6	49.3
1981	23.4	27.1	39.4	54.3	57.5	71.0	73.3	71.2	63.5	49.9	41.1	25.3	49.8
1982	10.6	21.4	34.6	44.7	66.1	66.2	75.4	71.3	64.2	54.7	39.2	35.3	48.6
1983	26.9	32.0	38.9	45.5	57.8	72.9	79.4	79.6	65.6	53.1	42.9	14.0	50.7
1984	19.6	34.5	31.2	49.1	58.2	73.6	73.1	75.2	62.9	55.1	39.3	31.1	50.2
1985	14.3	21.8	42.5	57.1	64.9	69.4	74.2	69.7	66.1	53.6	35.2	14.9	48.6
1986	25.1	22.9	42.5	54.6	63.0	71.7	77.6	68.3	67.3	53.4	34.8	30.0	50.9
1987	25.2	34.4	42.2	52.6	66.8	74.6	79.4	72.9	64.4	47.4	44.0	31.0	52.9
1988	20.2	21.7	38.7	50.6	64.1	73.1	78.2	77.8	67.0	47.3	40.3	29.0	50.7
1989	32.7	17.4	37.0	49.9	58.8	69.2	76.2	72.2	61.9	54.6	38.6	15.6	48.7
1990	32.7	31.3	42.8	50.0	57.3	71.3	74.2	73.7	66.9	51.7	44.2	24.6	51.7
1991	18.4	31.7	41.8	54.2	67.3	74.6	75.3	73.9	64.8	53.3	33.9	31.0	51.7
1992	29.1	34.3	41.3	49.2	61.0	68.6	70.5	67.4	62.5	52.2	37.5	27.4	50.1
1993	24.8	23.5	34.7	48.5	63.0	70.3	75.6	74.9	61.0	51.0	37.2	29.4	49.5
1994	14.7	22.7	39.4	52.2	60.6	72.9	72.9	70.2	66.0	55.6	43.6	33.3	50.3
1995	21.5	26.7	41.2	47.6	59.2	73.0	76.5	78.6	62.2	52.5	32.2	25.9	49.8
1996	20.0	25.1	32.7	47.5	58.2	70.8	72.1	72.9	63.4	53.4	32.6	24.8	47.8
POR= 65 YRS	21.5	26.1	36.7	50.3	61.3	71.2	75.2	73.1	64.9	53.5	38.9	26.6	49.9

HEATING DEGREE DAYS (base 65°F) 1996 MOLINE, ILLINOIS (MLI)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1967-68	21	33	136	424	860	1127	1354	1221	711	409	248	18	6562
1968-69	8	15	96	404	826	1247	1458	1032	1010	398	172	57	6723
1969-70	0	0	80	445	805	1253	1607	1120	967	419	118	21	6835
1970-71	0	2	92	350	764	1111	1556	1088	931	425	242	0	6561
1971-72	17	3	94	195	740	1026	1434	1280	893	504	155	25	6366
1972-73	8	7	80	459	824	1319	1170	1013	598	452	223	1	6154
1973-74	0	0	78	258	733	1274	1338	1061	812	360	235	32	6181
1974-75	0	8	180	349	739	1122	1235	1114	1058	593	117	14	6529
1975-76	9	0	162	297	594	1072	1413	855	731	385	235	2	5755
1976-77	0	5	123	569	1038	1403	1755	1059	656	286	54	15	6963
1977-78	0	5	50	420	780	1337	1625	1417	986	423	229	13	7285
1978-79	1	4	59	415	767	1305	1820	1445	884	521	172	12	7405
1979-80	5	22	95	415	831	1027	1280	1324	966	481	129	27	6602
1980-81	0	1	77	503	755	1180	1281	1055	783	322	253	3	6213
1981-82	12	9	91	459	710	1226	1682	1214	936	604	62	35	7040
1982-83	0	14	110	333	765	916	1175	917	802	578	228	17	5855
1983-84	1	0	110	377	654	1578	1406	880	1039	482	225	2	6754
1984-85	3	4	171	303	761	1042	1568	1203	692	293	66	25	6131
1985-86	0	4	133	347	888	1546	1231	1174	705	338	104	9	6479
1986-87	0	30	55	358	898	1078	1227	850	701	385	101	4	5687
1987-88	0	23	84	540	627	1046	1384	1250	807	427	90	15	6293
1988-89	1	9	45	544	736	1109	998	1326	863	461	240	28	6360
1989-90	0	4	138	334	785	1527	995	937	691	483	241	18	6153
1990-91	2	0	97	422	622	1248	1437	928	719	339	107	0	5921
1991-92	0	0	147	370	927	1049	1107	884	726	473	181	27	5891
1992-93	3	33	147	405	819	1158	1241	1156	936	488	116	53	6555
1993-94	0	1	153	433	827	1096	1557	1178	789	403	175	13	6625
1994-95	0	14	74	298	637	973	1343	1065	733	517	182	8	5844
1995-96	1	0	146	385	975	1206	1387	1151	995	519	253	27	7045
1996-	0	0	110	356	966	1238							

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COOLING DEGREE DAYS (base 65°F) 1996 MOLINE, ILLINOIS (MLI)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	0	0	0	1	77	130	320	276	86	41	0	0	931
1970	0	0	0	32	119	198	341	256	105	15	0	0	1066
1971	0	0	0	9	32	355	203	225	212	44	0	0	1080
1972	0	0	0	3	102	165	312	294	138	6	0	0	1020
1973	0	0	0	2	2	226	312	323	103	27	0	0	995
1974	0	0	0	17	50	113	389	180	45	3	0	0	797
1975	0	0	0	1	85	241	325	319	44	29	0	0	1044
1976	0	0	0	26	12	175	341	221	72	13	0	0	860
1977	0	0	0	44	182	173	397	199	73	0	0	0	1068
1978	0	0	1	0	87	202	288	267	195	5	0	0	1045
1979	0	0	0	0	83	206	272	245	79	22	0	0	907
1980	0	0	0	11	65	158	395	343	107	1	0	0	1080
1981	0	0	0	8	27	191	275	209	50	0	0	0	760
1982	0	0	0	0	102	78	327	215	95	20	0	0	837
1983	0	0	0	1	12	260	453	459	138	14	0	0	1337
1984	0	0	0	9	21	268	261	327	116	3	0	0	1005
1985	0	0	0	64	71	165	292	154	172	0	0	0	918
1986	0	0	12	31	48	216	396	143	133	4	0	0	983
1987	0	0	0	20	162	298	453	277	71	0	3	0	1284
1988	0	0	0	0	69	263	416	410	112	3	0	0	1273
1989	0	0	4	13	53	159	356	236	52	20	0	0	893
1990	0	0	10	40	8	216	294	280	159	18	3	0	1028
1991	0	0	6	21	183	297	324	284	149	16	0	0	1280
1992	0	0	0	6	61	143	181	115	77	13	0	0	596
1993	0	0	0	0	60	217	335	317	39	8	0	0	976
1994	0	0	0	26	43	256	250	182	114	15	1	0	887
1995	0	0	0	0	11	256	365	427	69	6	0	0	1134
1996	0	0	0	0	46	208	229	253	69	6	0	0	811

SNOWFALL (inches) 1996 MOLINE, ILLINOIS (MLI)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1967-68	0.0	0.0	0.0	6.6	0.3	3.2	8.6	2.8	1.1	T	0.0	0.0	22.6
1968-69	0.0	0.0	0.0	T	5.9	5.4	6.2	0.9	5.6	0.0	T	0.0	24.0
1969-70	0.0	0.0	0.0	0.0	1.5	15.4	7.2	6.1	12.7	8.3	0.0	0.0	51.2
1970-71	0.0	0.0	0.0	0.0	0.2	2.2	17.7	2.6	7.8	T	0.0	0.0	30.5
1971-72	0.0	0.0	0.0	0.0	5.9	0.3	11.8	13.7	19.8	2.6	0.0	0.0	54.1
1972-73	0.0	0.0	0.0	2.0	6.7	6.6	0.4	8.6	0.5	0.9	0.0	0.0	25.7
1973-74	0.0	0.0	0.0	0.0	T	11.4	12.7	7.4	3.0	0.6	0.0	0.0	35.1
1974-75	0.0	0.0	0.0	0.0	15.6	8.8	7.6	19.3	12.2	6.2	0.0	0.0	69.7
1975-76	0.0	0.0	0.0	0.0	9.9	2.5	8.6	0.1	0.6	0.0	T	0.0	21.7
1976-77	0.0	0.0	0.0	0.0	7.7	4.1	12.3	2.5	10.8	1.0	0.0	0.0	38.4
1977-78	0.0	0.0	0.0	0.0	4.8	20.8	6.1	6.8	6.5	T	0.0	0.0	45.0
1978-79	0.0	0.0	0.0	0.0	7.1	21.7	26.7	4.5	3.4	0.6	0.0	0.0	64.0
1979-80	0.0	0.0	0.0	T	1.9	0.8	4.2	13.1	7.5	9.5	0.0	0.0	37.0
1980-81	0.0	0.0	0.0	2.4	1.1	4.5	5.3	5.6	T	0.0	0.0	0.0	18.9
1981-82	0.0	0.0	0.0	T	3.3	4.3	13.6	4.5	6.6	13.0	0.0	0.0	45.3
1982-83	0.0	0.0	0.0	0.0	T	0.5	4.7	6.2	12.7	0.7	0.0	0.0	24.8
1983-84	0.0	0.0	0.0	T	0.9	18.9	9.9	1.9	13.6	0.1	0.0	0.0	45.3
1984-85	0.0	0.0	0.0	0.0	T	9.3	13.4	7.5	0.2	T	0.0	0.0	30.4
1985-86	0.0	0.0	0.0	0.0	3.1	11.5	3.7	7.8	0.2	0.4	0.0	0.0	26.7
1986-87	0.0	0.0	0.0	0.0	2.2	0.2	9.1	T	0.1	0.0	0.0	0.0	11.6
1987-88	0.0	0.0	0.0	T	0.6	15.9	2.7	16.4	0.5	0.0	0.0	0.0	36.1
1988-89	0.0	0.0	0.0	T	1.0	2.5	T	13.8	0.4	T	T	0.0	17.7
1989-90	0.0	0.0	0.0	T	0.1	8.2	6.3	10.3	T	T	0.0	T	24.9
1990-91	0.0	0.0	0.0	0.0	T	7.5	11.1	1.5	5.4	0.0	0.0	0.0	25.5
1991-92	0.0	0.0	T	T	1.0	6.7	5.2	1.4	3.6	T	0.0	T	17.9
1992-93	0.0	0.0	0.0	T	0.6	7.2	7.0	6.4	3.0	1.0	T	0.0	25.2
1993-94	0.0	0.0	0.0	T	3.6	5.2	13.4	20.7	T	0.2	0.0	0.0	43.1
1994-95	T	0.0	0.0	0.0	T	1.8	22.2	0.9	3.5	0.1	T	0.0	28.5
1995-96	0.0	0.0	0.0	0.0	3.8	6.8	13.7	1.4	2.1	T	0.0	0.0	27.8
1996-	0.0	0.0	0.0	0.0	2.1	6.9							
POR= 63 YRS	T	0.0	0.0	0.2	2.2	7.0	8.1	5.9	5.6	1.0	0.0	T	30.0

WBAN : 14923

REFERENCE NOTES:

PAGE 1:
THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).

PAGE 2 AND 3:
H/C INDICATES HEATING AND COOLING DEGREE DAYS.
RH INDICATES RELATIVE HUMIDITY
W/O INDICATES WEATHER AND OBSTRUCTIONS
S INDICATES SUNSHINE.
PR INDICATES PRESSURE.
CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).

GENERAL:
T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE.
+ INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES.
BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.
NORMALS ARE 30-YEAR AVERAGES (1961 - 1990).
ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM.
PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH.
POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING.
WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED.
0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05.
CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET.
THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.

GENERAL CONTINUED:
CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED.
WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH.
RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION.
AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2.
SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL.
A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65° F.
DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR.
DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY.
WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.

ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.

1996
MOLINE,
ILLINOIS (MLI)

The locality is in the heart of the Corn Belt. Agricultural crops include many important staple products in addition to corn. Cattle, hogs, horses, and poultry produced in Iowa and Illinois rank high in the nation. Close to the Mississippi River there is large scale truck gardening and considerable dairying. Field production of grains and livestock attains greater development farther away from the large streams, where the countryside is rolling prairie. Damaging droughts are not common. This, together with the variety of agricultural products, has led to designating the section as the Bread Basket of America.

The climate is favorable for many industries as evidenced by the large number and variety of manufacturing and other enterprises which have located and developed in the community. Among these are some of the largest producers of agricultural machinery in the world.

This area has a temperate continental climate, with a wide temperature range throughout the year. There are some intensely hot, unusually humid, periods in summer and severely cold periods in winter. Maxima of 90 degrees or more have occurred in summer as frequently as 55 days and zero or lower readings have occurred during every winter.

Freezing temperatures have occurred as late in spring as late May and as early in autumn as late September. Precipitation is usually well distributed throughout the year with the greatest amounts falling during the 177-day average crop growing season. Substantial weather changes frequently occur at three or four day intervals, as a direct result of proximity to some of the most important storm tracks.

STATION LOCATION

MOLINE, ILLINOIS

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE SEA LEVEL: GROUND TEMPERATURE SITE	ELEVATION ABOVE GROUND: WIND INSTRUMENTS	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	RAIN GAGE TIPPING BUCKET	WEIGHING RAIN GAGE	8 INCH RAIN GAGE	HYGROTHERMOMETER	AUTOMATIC OBSERVING EQUIPMENT *	REMARKS
NE Corner, Moline AP 4.5 miles S of Moline Post Office	10/1/26	12/27/39	NA	41°27'	90°31'	589	53	3	3				3			
Administration Building Quad City Airport	12/27/39	4/3/61	1200 ft. W	41°27'	90°31'	589 h582	62 f25	5 b36 c5 d36	5 a36 c5 d36	Unk		4 e5	15	g4		a - Moved to roof site 12/1/54. b - Moved to roof site 5/31/55. c - Moved to field site 6/7/56. d - Moved to roof site 4/16/58. e - Effective 4/16/58. f - Moved to field site 11/13/58. g - Telepsychrometer (5') 6/7/56-3/1/60. Hygro. comm. 3/1/60. h - Effective 3/1/60.
Terminal Building Quad City Airport	4/4/61	Present	200 ft. SE	41°27'	90°31'	582	i25 n30	17 n4	17 n4	27 n7	NA k16 n4	i5 j16 n4	15 n4	i4 m4 n4	NA S	i - Not moved 4/4/61. j - Effective 7/22/63. k - Added 6/1/64. m - Type change 6/27/85. n - Moved to field site 1/5/91. ASOS Commissioned 07/01/95

* Type
M = AMOS
T = AUTOB
S = ASOS
W = AWOS

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1995 LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

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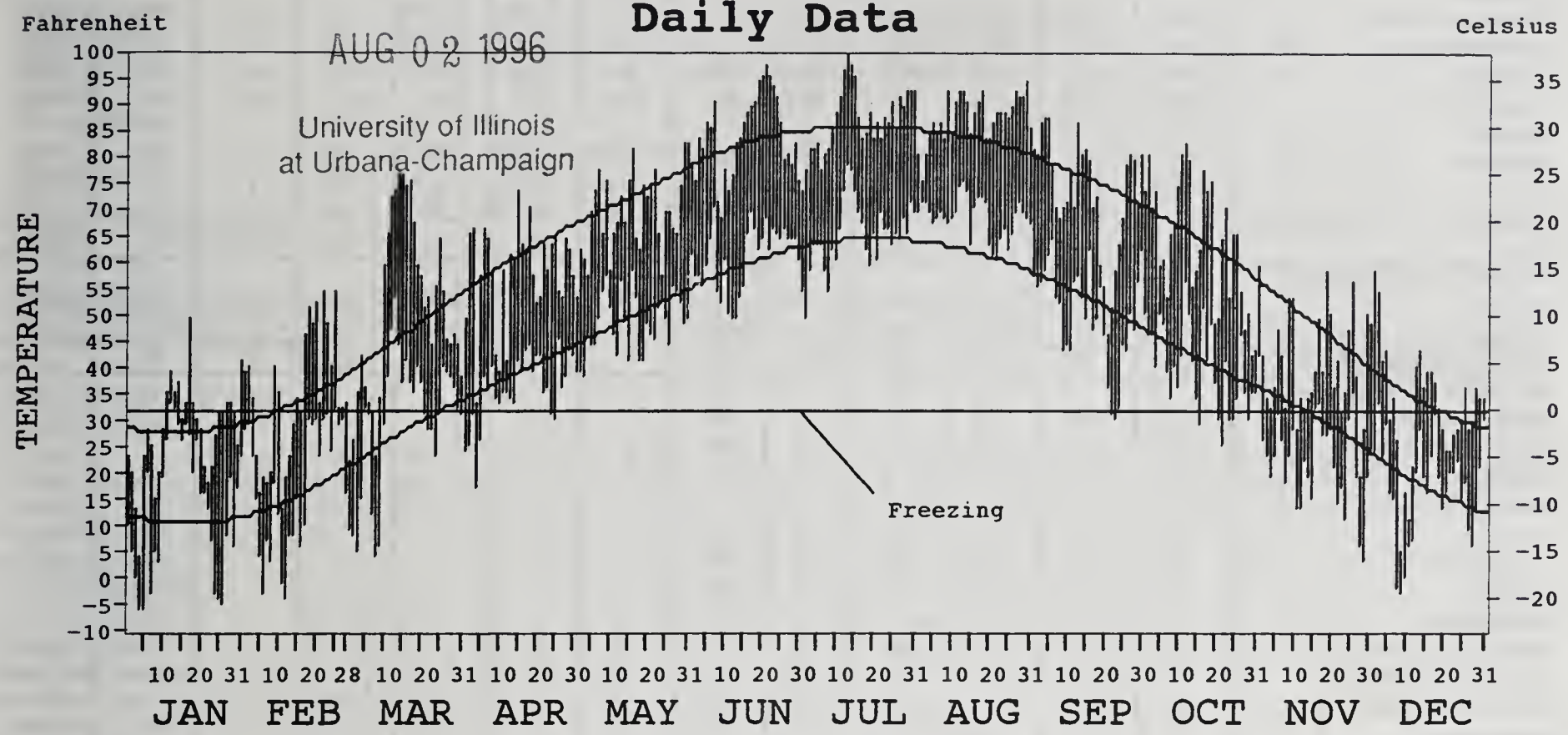
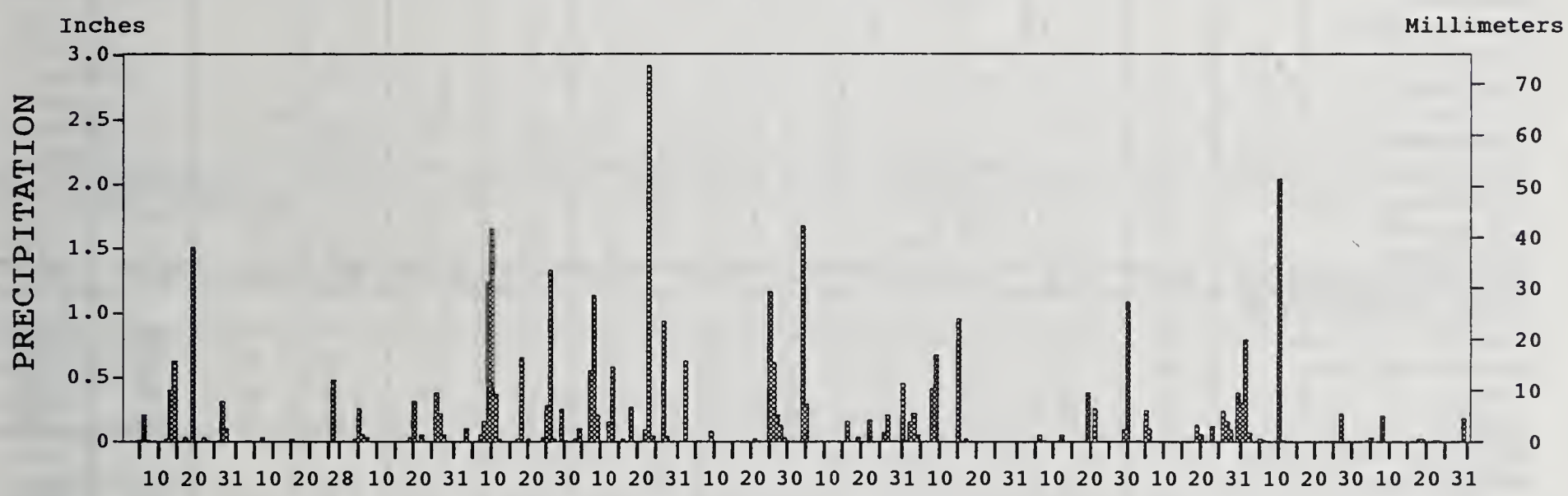
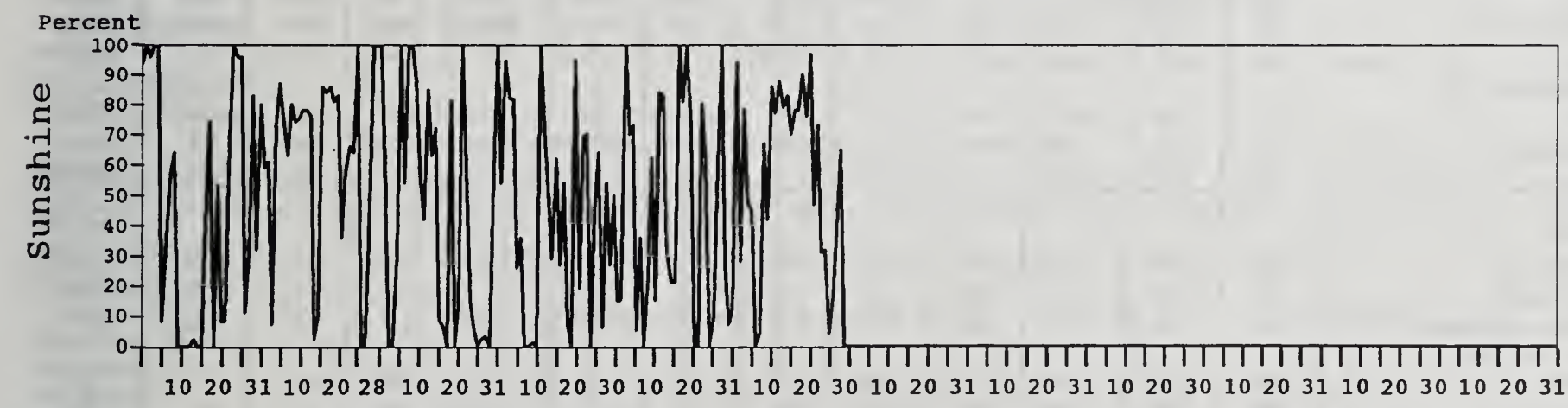
Daily Data







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Kenneth D. Hadeen
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE
NATIONAL CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

METEOROLOGICAL DATA FOR 1995

MOLINE, ILLINOIS

LATITUDE: 41° 27' N LONGITUDE: 90° 31' W ELEVATION: FT. GRND 592 BARO 607 TIME ZONE: CENTRAL WBAN: 14923

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F							ASOS	ASOS	ASOS	ASOS	ASOS	ASOS	
Averages													
-Daily Maximum	28.7	35.1	51.7	58.6	69.6	84.5	87.5	88.0	73.7	64.4	41.3	33.6	59.7
-Daily Minimum	14.2	18.2	30.6	36.6	48.8	61.5	65.5	69.1	50.7	40.6	23.1	18.1	39.8
-Monthly	21.5	26.7	41.2	47.6	59.2	73.0	76.5	78.6	62.2	52.5	32.2	25.9	49.8
-Monthly Dewpt.	15.6	16.9	30.2	35.7	48.7	60.9	65.3	70.4	51.1	41.9	24.5	18.6	40.0
Extremes													
-Highest	50	55	77	74	83	98	100	95	88	83	60	59	100
-Date	17	25	15	15	31	21	13	30	5	12	1	2	JUL 13
-Lowest	-5	-3	5	18	39	50	50	61	31	26	4	-2	-5
-Date	5	12	8	4	3	13	2	22	23	22	29	9	JAN 5
DEGREE DAYS BASE 65 °F													
Heating	1343	1065	733	517	182	8	1	0	146	385	975	1206	6561
Cooling	0	0	0	0	11	256	365	427	69	6	0	0	1134
% OF POSSIBLE SUNSHINE	46	59	45	45	46	54		59	59	54	55	45	
AVG. SKY COVER (tenths)													
Sunrise - Sunset	6.7	5.6	7.4	7.8	7.2	6.0							
Midnight - Midnight	6.5	5.2	6.9	7.4	7.1	6.0							
NUMBER OF DAYS:													
Sunrise to Sunset													
-Clear	9	11	5	3	4	8							
-Partly Cloudy	3	6	6	6	8	10							
-Cloudy	19	11	20	21	19	12							
Precipitation													
.01 inches or more	12	4	10	16	14	8	8	8	7	11	7	8	113
Snow,Ice Pellets,Hail													
1.0 inches or more	2	0	1	0	0	0	0	0	0	0	2	2	7
Thunderstorms	1	0	2	7	5	7	9	5	2	3	2	0	43
Heavy Fog, visibility													
1/4 mile or less	2	0	1	1	0	1	0	2	2	0	0	2	11
Temperature F °													
-Maximum													
90° and above	0	0	0	0	0	9	11	12	0	0	0	0	32
32° and below	21	10	4	0	0	0	0	0	0	0	4	14	53
-Minimum													
32° and below	29	27	15	7	0	0	0	0	2	6	26	30	142
0 °and below	6	3	0	0	0	0	0	0	0	0	0	2	11
AVG. STATION PRESS. (mb)	996.6	997.6	998.0	991.5	991.9	992.9	991.9	993.2	996.6	991.5	995.4	999.7	994.8
RELATIVE HUMIDITY (%)													
Hour 00	81	72	77	77	83	82	85	89	81		78	80	
Hour 06 (Local Time)	84	76	81	79	85	87	89	92	87	84	82	81	84
Hour 12	72	57	57	55	56	55	54	64	53	54	64	66	59
Hour 18	77	65	59	57	58	58	58	71	66	67	71	71	65
PRECIPITATION (inches):													
Water Equivalent													
-Total	3.26	0.54	1.41	6.19	7.05	2.86	3.07	2.48	1.92	1.83	3.16	0.50	34.27
-Greatest (24 hrs)	1.51	0.48	0.57	1.65	2.92	1.77	1.78	0.95	1.08	0.47	2.05	0.20	2.92
-Date	19	26	26-27	10	23	25-26	4-5	15	30	30-31	10-11	8	MAY 23
Snow,Ice pellets,Hail													
-Total	22.2	0.9	3.5	0.1	T	0.0	0.0	0.0	0.0	0.0	3.8	6.8	37.3
-Greatest (24 hrs)	15.1	0.8	3.3	0.1	T	0.0	0.0	0.0	0.0	0.0	2.2	3.3	15.1
-Date	19	6-7	4-5	10	9						27	8	JAN 19
WIND:													
Resultant													
-Direction (!!)	289	290	252	296	234	248	227	197	178	238	271	314	258
-Speed (mph)	3.5	4.8	1.9	0.7	0.7	1.6	3.5	2.2	1.5	3.5	3.4	2.1	2.0
Average Speed (mph)	8.8	9.3	8.8	10.2	7.6	5.6	6.6	5.5	7.4	8.9	9.0	9.0	8.1
Fastest Obs. 2 Min.													
-Direction (!!)	36	31	26	22	10	27	26	01	19	24	30	27	24
-Speed (mph)	23	26	29	30	32	20	33	26	26	38	28	31	38
-Date	19	23	20	18	8	10	4	17	30	23	20	9	OCT 23
Peak Gust													
-Direction (!!)	N	NW	W	W	SE	NE	25	08	18	23	31	27	23
-Speed (mph)	36	40	40	49	47	30	51	38	39	55	49	45	55
-Date	19	23	20	18	8	8	4	9	30	23	20	9	OCT 23

(!!) See Reference Notes on Page 6B

NORMALS, MEANS, AND EXTREMES

MOLINE, ILLINOIS

LATITUDE: 41° 27' N LONGITUDE: 90° 31' W ELEVATION: FT. GRND 592 BARO 607 TIME ZONE: CENTRAL WBAN: 14923

	(a)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F														
Normals														
-Daily Maximum		28.4	33.7	46.7	61.4	72.8	82.5	85.9	83.5	75.9	64.2	48.4	33.4	59.7
-Daily Minimum		11.3	15.9	28.1	39.4	49.9	59.6	64.5	61.8	53.3	41.8	30.7	17.5	39.5
-Monthly		19.9	24.8	37.4	50.4	61.4	71.1	75.2	72.7	64.7	53.0	39.6	25.4	49.6
Extremes														
-Record Highest	63	69	71	88	93	104	104	105	106	100	92	80	69	106
-Year		1989	1976	1986	1986	1934	1988	1940	1936	1939	1963	1933	1970	AUG 1936
-Record Lowest	63	-27	-25	-19	7	26	39	46	40	24	16	-9	-24	-27
-Year		1979	1979	1960	1982	1966	1993	1971	1986	1942	1988	1976	1989	JAN 1979
NORMAL DEGREE DAYS:														
Heating (base 65 °F)		1398	1126	856	438	188	10	0	11	73	384	762	1228	6474
Cooling (base 65 °F)		0	0	0	0	76	193	316	250	64	12	0	0	911
% OF POSSIBLE SUNSHINE	52	48	50	50	53	57	63	68	66	62	58	42	40	55
MEAN SKY COVER(tenths)														
Sunrise - Sunset	53	6.6	6.4	6.8	6.6	6.2	5.9	5.4	5.3	5.2	5.3	6.8	6.8	6.1
MEAN NUMBER OF DAYS:														
Sunrise to Sunset														
-Clear	62	7.9	7.3	6.5	6.5	7.5	7.4	9.9	10.2	11.6	11.6	7.3	7.0	100.8
-Partly Cloudy	62	6.9	6.3	7.8	8.5	9.2	10.6	11.8	11.0	7.9	7.6	6.6	6.2	100.4
-Cloudy	62	16.2	14.6	16.7	14.9	14.2	11.9	9.3	9.8	10.5	11.8	16.1	17.8	164.0
Precipitation														
.01 inches or more	63	9.1	7.9	10.9	11.0	11.9	10.1	9.7	9.0	8.8	7.7	8.6	9.2	113.9
Snow,Ice Pellets,Hail														
1.0 inches or more	63	2.6	2.1	1.7	0.2	0.0	0.0	0.0	0.0	0.0	0.*	0.7	2.3	9.6
Thunderstorms	62	0.3	0.5	2.2	4.5	6.7	8.3	8.4	7.1	4.4	2.4	1.3	0.7	46.9
Heavy Fog Visibility														
1/4 mile or less	61	2.2	2.0	2.0	0.7	0.8	0.6	0.7	1.9	1.6	1.8	1.1	1.9	17.4
Temperature °F														
-Maximum														
90° and above	35	0.0	0.0	0.0	0.1	1.2	5.7	8.5	6.2	1.7	0.1	0.0	0.0	23.5
32° and below	35	18.0	12.3	3.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	2.3	12.6	48.7
-Minimum														
32° and below	35	29.3	25.5	20.5	7.2	0.6	0.0	0.0	0.0	0.3	5.9	18.4	27.4	135.1
0° and below	35	7.9	4.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	3.5	15.9
AV. STATION PRES.(mb)	23	997.7	997.6	994.2	992.9	992.8	992.8	994.1	995.2	995.9	996.1	995.7	997.6	995.2
RELATIVE HUMIDITY (%)														
Hour 00	35	74	74	74	72	75	77	83	85	83	76	76	77	77
Hour 06 (Local Time)	35	75	76	78	78	80	81	85	90	88	81	80	79	81
Hour 12	35	66	64	60	54	53	53	57	59	57	54	63	69	59
Hour 18	35	70	67	62	54	53	53	59	63	66	63	70	74	63
PRECIPITATION (ins):														
Water Equivalent														
-Normal		1.54	1.23	2.98	3.90	4.30	4.27	4.95	4.22	4.02	2.93	2.51	2.23	39.08
-Maximum Monthly	66	4.39	2.80	7.43	11.30	11.43	13.21	11.76	15.23	14.18	9.41	6.77	4.99	15.23
-Year		1974	1985	1973	1973	1974	1993	1992	1987	1970	1941	1992	1982	AUG 1987
-Minimum Monthly	66	0.31	0.17	0.31	0.68	0.31	1.02	0.41	0.35	0.02	0.01	0.29	0.23	0.01
-Year		1961	1933	1958	1946	1992	1963	1991	1971	1979	1964	1933	1929	OCT 1964
-Maximum in 24 hrs	66	2.07	1.90	2.42	5.81	3.68	5.02	5.41	5.13	6.29	4.89	2.73	3.38	6.29
-Year		1960	1948	1985	1973	1970	1967	1963	1987	1961	1954	1961	1942	SEP 1961
Snow,Ice Pellets,Hail														
-Maximum Monthly	64	26.7	20.7	19.8	13.0	0.3	T	T	0.0	0.1	6.6	15.6	21.7	26.7
-Year		1979	1994	1972	1982	1935	1992	1994		1942	1967	1974	1978	JAN 1979
-Maximum in 24 hrs	62	16.4	10.1	11.0	8.2	0.3	T	T	0.0	0.1	6.5	8.5	11.4	16.4
-Year		1971	1975	1972	1970	1935	1992	1994		1942	1967	1975	1987	JAN 1971
WIND:														
Mean Speed (mph)	52	10.8	10.7	11.9	11.9	10.1	8.9	7.5	7.1	8.0	9.2	10.7	10.5	9.8
Prevailing Direction														
through 1963		WNW	WNW	WNW	NW	E	S	E	E	S	S	WNW	WNW	WNW
Fastest Obs. 2 Min.														
-Direction (!!)	6	29	29	27	26	30	29	26	32	26	24	28	07	26
-Speed (mph)		40	32	43	46	40	35	33	38	32	38	33	36	46
-Year		1990	1994	1991	1992	1988	1993	1995	1988	1988	1995	1991	1990	APR 1992
Peak Gust														
-Direction (!!)	12	W	NW	SW	SW	NW	W	NW	N	SW	SW	W	NW	N
-Speed (mph)	12	59	54	69	69	60	59	52	81	49	61	52	56	81
-Date		1990	1990	1991	1984	1988	1990	1984	1987	1988	1984	1988	1985	AUG 1987

(!!) See Reference Notes on Page 6B

PRECIPITATION (inches) MOLINE, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1966	2.01	0.89	0.85	3.96	6.39	4.25	7.74	0.77	2.80	4.38	1.12	2.52	37.68
1967	2.00	1.11	1.68	4.91	1.70	8.15	4.15	3.62	4.99	6.23	2.26	1.56	42.36
1968	0.80	0.32	1.96	3.57	2.59	3.70	3.91	2.16	5.70	1.09	3.29	2.76	31.85
1969	3.28	0.21	2.25	3.11	3.40	6.97	11.39	2.00	2.50	4.63	0.53	1.52	41.79
1970	0.54	0.57	2.62	4.66	11.07	3.25	6.27	3.61	14.18	1.75	1.25	1.95	51.72
1971	1.79	1.57	1.99	1.86	3.14	2.36	11.22	0.35	4.54	2.64	2.21	4.77	38.44
1972	1.19	1.24	3.73	5.19	4.24	8.66	3.79	8.20	3.29	2.39	2.75	1.98	46.65
1973	2.53	1.94	7.43	11.30	6.96	6.58	2.63	2.30	6.74	3.06	1.15	3.74	56.36
1974	4.39	1.57	2.94	5.08	11.43	8.83	1.73	3.37	1.08	1.99	2.59	1.83	46.83
1975	1.50	1.75	3.30	2.88	3.23	3.50	2.71	3.23	1.99	0.90	2.98	0.98	28.95
1976	0.88	1.11	3.67	4.21	4.13	2.02	3.34	0.60	1.89	2.13	0.65	0.34	24.97
1977	0.87	0.62	4.61	1.57	2.66	5.18	6.04	6.98	4.80	4.09	2.78	1.76	41.96
1978	0.59	0.67	0.78	3.02	4.65	3.50	3.24	2.47	3.91	1.95	3.32	3.17	31.27
1979	2.72	1.02	2.77	4.01	2.86	2.85	4.40	6.94	0.02	2.51	2.13	2.27	34.50
1980	1.31	1.55	1.74	2.34	4.01	4.97	3.46	9.09	2.94	1.63	0.70	2.75	36.49
1981	0.32	2.45	0.69	4.48	1.48	5.51	3.07	6.90	4.20	4.42	2.42	0.72	36.66
1982	2.08	0.45	3.85	3.33	5.03	3.61	8.83	2.89	1.94	3.38	3.64	4.99	44.02
1983	0.55	1.50	2.88	4.88	2.06	5.21	2.79	0.96	5.30	2.36	5.78	2.55	36.82
1984	0.84	0.79	3.45	4.31	4.97	3.75	4.63	1.31	2.32	6.60	2.91	3.51	39.39
1985	1.04	2.80	4.71	2.14	3.46	2.26	3.33	2.76	1.71	8.54	6.35	2.21	41.31
1986	0.38	2.53	1.35	3.15	5.54	5.10	6.34	3.24	5.63	4.23	1.03	1.95	40.47
1987	0.91	0.89	2.57	1.49	3.35	1.54	1.91	15.23	1.11	0.79	3.33	4.46	37.58
1988	1.74	1.08	2.36	1.36	2.32	1.16	1.79	4.89	1.97	2.37	3.14	1.57	25.75
1989	1.21	1.21	1.85	3.62	3.42	3.31	3.10	6.17	5.42	1.18	0.71	0.73	31.93
1990	1.66	1.99	6.68	3.50	7.68	9.59	3.56	6.42	1.04	2.35	2.87	3.07	50.41
1991	1.19	0.43	6.31	3.69	3.87	1.32	0.41	2.06	2.52	5.80	5.03	1.86	34.49
1992	1.18	1.91	1.07	2.88	0.31	2.11	11.76	1.70	4.80	1.49	6.77	3.96	39.94
1993	2.01	0.92	4.87	5.48	3.61	13.21	5.82	7.76	4.11	0.37	1.50	1.13	50.79
1994	1.04	2.69	0.64	2.64	1.67	4.83	5.69	3.40	1.53	1.67	4.71	1.64	32.15
1995	3.26	0.54	1.41	6.19	7.05	2.86	3.07	2.48	1.92	1.83	3.16	0.50	34.27
Record Mean	1.55	1.31	2.68	3.66	3.95	4.40	4.25	3.82	3.57	2.73	2.38	1.86	36.17

(!!) See Reference Notes on Page 6B

AVERAGE TEMPERATURE (deg. F) MOLINE, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1966	14.3	24.8	39.2	47.0	56.3	70.5	77.9	70.6	62.9	52.5	41.7	28.1	48.8
1967	26.0	18.7	39.0	51.6	56.4	70.9	71.4	67.7	62.1	52.1	36.1	28.5	48.4
1968	21.0	22.7	41.9	51.3	57.2	72.1	73.1	73.5	63.1	53.2	37.3	24.5	49.3
1969	17.9	27.9	32.2	51.6	61.7	67.1	75.0	73.7	64.9	51.7	37.9	24.3	48.8
1970	13.1	24.7	33.6	51.8	64.9	70.7	75.7	72.9	65.2	53.9	39.2	28.9	49.5
1971	14.8	25.9	34.7	50.9	58.0	76.6	70.7	71.9	68.7	59.9	40.0	31.6	50.3
1972	18.6	20.7	36.0	48.0	63.0	69.4	74.6	74.0	66.7	50.2	37.3	22.3	48.4
1973	27.1	28.7	45.4	49.7	57.6	72.3	74.9	75.1	65.7	57.3	40.4	23.7	51.5
1974	21.6	26.8	38.5	53.3	58.8	67.5	77.3	70.3	60.4	53.7	40.1	28.6	49.8
1975	24.9	25.0	30.6	45.1	63.8	72.3	75.0	75.1	60.9	56.2	45.0	30.3	50.4
1976	19.1	35.2	41.2	52.9	57.5	70.5	75.8	71.8	63.0	46.8	30.1	19.6	48.6
1977	8.2	27.1	43.6	56.6	68.9	70.0	77.5	71.0	65.5	51.2	38.7	21.7	50.0
1978	12.4	14.1	33.0	50.8	60.2	71.0	74.0	73.2	69.2	51.5	39.2	22.7	47.6
1979	6.3	13.2	36.3	47.4	61.9	71.2	73.5	72.0	64.3	52.1	37.0	31.7	47.2
1980	23.4	19.2	33.5	49.1	62.7	69.2	77.6	75.8	65.7	48.6	39.7	26.6	49.3
1981	23.4	27.1	39.4	54.3	57.5	71.0	73.3	71.2	63.5	49.9	41.1	25.3	49.7
1982	10.6	21.4	34.6	44.7	66.1	66.2	75.4	71.3	64.2	54.7	39.2	35.3	48.7
1983	26.9	32.0	38.9	45.5	57.8	72.9	79.4	79.6	65.6	53.1	42.9	14.0	50.7
1984	19.6	34.5	31.2	49.1	58.2	73.6	73.1	75.2	62.9	55.1	39.3	31.1	50.2
1985	14.3	21.8	42.5	57.1	64.9	69.4	74.2	69.7	66.1	53.6	35.2	14.9	48.6
1986	25.1	22.9	42.5	54.6	63.0	71.7	77.6	68.3	67.3	53.4	34.8	30.0	50.9
1987	25.2	34.4	42.2	52.6	66.8	74.6	79.4	72.9	64.4	47.4	44.0	31.0	52.9
1988	20.2	21.7	38.7	50.6	64.1	73.1	78.2	77.8	67.0	47.3	40.3	29.0	50.7
1989	32.7	17.4	37.0	49.9	58.8	69.2	76.2	72.2	61.9	54.6	38.6	15.6	48.7
1990	32.7	31.3	42.8	50.0	57.3	71.3	74.2	73.7	66.9	51.7	44.2	24.6	51.7
1991	18.4	31.7	41.8	54.2	67.3	74.6	75.3	73.9	64.8	53.3	33.9	31.0	51.7
1992	29.1	34.3	41.3	49.2	61.0	68.6	70.5	67.4	62.5	52.2	37.5	27.4	50.1
1993	24.8	23.5	34.7	48.5	63.0	70.3	75.6	74.9	61.0	51.0	37.2	29.4	49.5
1994	14.7	22.7	39.4	52.2	60.6	72.9	72.9	70.2	66.0	55.6	43.6	33.3	50.3
1995	21.5	26.7	41.2	47.6	59.2	73.0	76.5	78.6	62.2	52.5	32.2	25.9	49.8
Record Mean	21.6	26.1	36.8	50.3	61.3	71.2	75.3	73.1	65.0	53.5	39.0	26.6	50.0
Max	30.1	34.8	46.0	61.2	72.6	82.3	86.2	84.1	76.5	65.0	48.0	34.5	60.1
Min	13.0	17.4	27.5	39.4	50.0	60.1	64.3	62.1	53.4	42.1	29.9	18.7	39.8

(!!) See Reference Notes on Page 6B

HEATING DEGREE DAYS Base 65 deg. F MOLINE, ILLINOIS

SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1966-67	0	6	116	386	695	1137	1202	1289	802	404	305	10	6352
1967-68	21	33	136	424	860	1127	1354	1221	711	409	248	18	6562
1968-69	8	15	96	404	826	1247	1458	1032	1010	398	172	57	6723
1969-70	0	0	80	445	805	1253	1607	1120	967	419	118	21	6835
1970-71	0	2	92	350	764	1111	1556	1088	931	425	242	0	6561
1971-72	17	3	94	195	740	1026	1434	1280	893	504	155	25	6366
1972-73	8	7	80	459	824	1319	1170	1013	598	452	223	1	6154
1973-74	0	0	78	258	733	1274	1338	1061	812	360	235	32	6181
1974-75	0	8	180	349	739	1122	1235	1114	1058	593	117	14	6529
1975-76	9	0	162	297	594	1072	1413	855	731	385	235	2	5755
1976-77	0	5	123	569	1038	1403	1755	1059	656	286	54	15	6963
1977-78	0	5	50	420	780	1337	1625	1417	986	423	229	13	7285
1978-79	1	4	59	415	767	1305	1820	1445	884	521	172	12	7405
1979-80	5	22	95	415	831	1027	1280	1324	966	481	129	27	6602
1980-81	0	1	77	503	755	1180	1281	1055	783	322	253	3	6213
1981-82	12	9	91	459	710	1226	1682	1214	936	604	62	35	7040
1982-83	0	14	110	333	765	916	1175	917	802	578	228	17	5855
1983-84	1	0	110	377	654	1578	1406	880	1039	482	225	2	6754
1984-85	3	4	171	303	761	1042	1568	1203	692	293	66	25	6131
1985-86	0	4	133	347	888	1546	1231	1174	705	338	104	9	6479
1986-87	0	30	55	358	898	1078	1227	850	701	385	101	4	5687
1987-88	0	23	84	540	627	1046	1384	1250	807	427	90	15	6293
1988-89	1	9	45	544	736	1109	998	1326	863	461	240	28	6360
1989-90	0	4	138	334	785	1527	995	937	691	483	241	18	6153
1990-91	2	0	97	422	622	1248	1437	928	719	339	107	0	5921
1991-92	0	0	147	370	927	1049	1107	884	726	473	181	27	5891
1992-93	3	33	147	405	819	1158	1241	1156	936	488	116	53	6555
1993-94	0	1	153	433	827	1096	1557	1178	789	403	175	13	6625
1994-95	0	14	74	298	637	973	1343	1065	733	517	182	8	5844
1995-96	1	0	146	385	975	1206							

(!!) See Reference Notes on Page 6B

COOLING DEGREE DAYS Base 65 deg. F MOLINE, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969	0	0	0	1	77	130	320	276	86	41	0	0	931
1970	0	0	0	32	119	198	341	256	105	15	0	0	1066
1971	0	0	0	9	32	355	203	225	212	44	0	0	1080
1972	0	0	0	3	102	165	312	294	138	6	0	0	1020
1973	0	0	0	2	2	226	312	323	103	27	0	0	995
1974	0	0	0	17	50	113	389	180	45	3	0	0	797
1975	0	0	0	1	85	241	325	319	44	29	0	0	1044
1976	0	0	0	26	12	175	341	221	72	13	0	0	860
1977	0	0	0	44	182	173	397	199	73	0	0	0	1068
1978	0	0	1	0	87	202	288	267	195	5	0	0	1045
1979	0	0	0	0	83	206	272	245	79	22	0	0	907
1980	0	0	0	11	65	158	395	343	107	1	0	0	1080
1981	0	0	0	8	27	191	275	209	50	0	0	0	760
1982	0	0	0	0	102	78	327	215	95	20	0	0	837
1983	0	0	0	1	12	260	453	459	138	14	0	0	1337
1984	0	0	0	9	21	268	261	327	116	3	0	0	1005
1985	0	0	0	64	71	165	292	154	172	0	0	0	918
1986	0	0	12	31	48	216	396	143	133	4	0	0	983
1987	0	0	0	20	162	298	453	277	71	0	3	0	1284
1988	0	0	0	0	69	263	416	410	112	3	0	0	1273
1989	0	0	4	13	53	159	356	236	52	20	0	0	893
1990	0	0	10	40	8	216	294	280	159	18	3	0	1028
1991	0	0	6	21	183	297	324	284	149	16	0	0	1280
1992	0	0	0	6	61	143	181	115	77	13	0	0	596
1993	0	0	0	0	60	217	335	317	39	8	0	0	976
1994	0	0	0	26	43	256	250	182	114	15	1	0	887
1995	0	0	0	0	11	256	365	427	69	6	0	0	1134

(!!) See Reference Notes on Page 6B

SNOWFALL (inches) MOLINE, ILLINOIS

SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1966-67	0.0	0.0	0.0	0.0	T	7.2	14.4	13.2	2.2	1.1	0.0	0.0	38.1
1967-68	0.0	0.0	0.0	6.6	0.3	3.2	8.6	2.8	1.1	T	0.0	0.0	22.6
1968-69	0.0	0.0	0.0	T	5.9	5.4	6.2	0.9	5.6	0.0	T	0.0	24.0
1969-70	0.0	0.0	0.0	0.0	1.5	15.4	7.2	6.1	12.7	8.3	0.0	0.0	51.2
1970-71	0.0	0.0	0.0	0.0	0.2	2.2	17.7	2.6	7.8	T	0.0	0.0	30.5
1971-72	0.0	0.0	0.0	0.0	5.9	0.3	11.8	13.7	19.8	2.6	0.0	0.0	54.1
1972-73	0.0	0.0	0.0	2.0	6.7	6.6	0.4	8.6	0.5	0.9	0.0	0.0	25.7
1973-74	0.0	0.0	0.0	0.0	T	11.4	12.7	7.4	3.0	0.6	0.0	0.0	35.1
1974-75	0.0	0.0	0.0	0.0	15.6	8.8	7.6	19.3	12.2	6.2	0.0	0.0	69.7
1975-76	0.0	0.0	0.0	0.0	9.9	2.5	8.6	0.1	0.6	0.0	T	0.0	21.7
1976-77	0.0	0.0	0.0	0.0	7.7	4.1	12.3	2.5	10.8	1.0	0.0	0.0	38.4
1977-78	0.0	0.0	0.0	0.0	4.8	20.8	6.1	6.8	6.5	T	0.0	0.0	45.0
1978-79	0.0	0.0	0.0	0.0	7.1	21.7	26.7	4.5	3.4	0.6	0.0	0.0	64.0
1979-80	0.0	0.0	0.0	T	1.9	0.8	4.2	13.1	7.5	9.5	0.0	0.0	37.0
1980-81	0.0	0.0	0.0	2.4	1.1	4.5	5.3	5.6	T	0.0	0.0	0.0	18.9
1981-82	0.0	0.0	0.0	T	3.3	4.3	13.6	4.5	6.6	13.0	0.0	0.0	45.3
1982-83	0.0	0.0	0.0	0.0	T	0.5	4.7	6.2	12.7	0.7	0.0	0.0	24.8
1983-84	0.0	0.0	0.0	T	0.9	18.9	9.9	1.9	13.6	0.1	0.0	0.0	45.3
1984-85	0.0	0.0	0.0	0.0	T	9.3	13.4	7.5	0.2	T	0.0	0.0	30.4
1985-86	0.0	0.0	0.0	0.0	3.1	11.5	3.7	7.8	0.2	0.4	0.0	0.0	26.7
1986-87	0.0	0.0	0.0	0.0	2.2	0.2	9.1	T	0.1	0.0	0.0	0.0	11.6
1987-88	0.0	0.0	0.0	T	0.6	15.9	2.7	16.4	0.5	0.0	0.0	0.0	36.1
1988-89	0.0	0.0	0.0	T	1.0	2.5	T	13.8	0.4	T	T	0.0	17.7
1989-90	0.0	0.0	0.0	T	0.1	8.2	6.3	10.3	T	T	0.0	T	24.9
1990-91	0.0	0.0	0.0	0.0	T	7.5	11.1	1.5	5.4	0.0	0.0	0.0	25.5
1991-92	0.0	0.0	T	T	1.0	6.7	5.2	1.4	3.6	T	0.0	T	17.9
1992-93	0.0	0.0	0.0	T	0.6	7.2	7.0	6.4	3.0	1.0	T	0.0	25.2
1993-94	0.0	0.0	0.0	T	3.6	5.2	13.4	20.7	T	0.2	0.0	0.0	43.1
1994-95	T	0.0	0.0	0.0	T	1.8	22.2	0.9	3.5	0.1	T	0.0	28.5
1995-96	0.0	0.0	0.0	0.0	3.8	6.8							
Record Mean	T	0.0	T	0.2	2.2	7.0	8.1	6.1	5.8	1.0	T	T	30.4

(!!) See Reference Notes on Page 6B

REFERENCE NOTES MOLINE, ILLINOIS

GENERAL
T - TRACE AMOUNT.
BLANK ENTRIES DENOTE MISSING/UNREPORTED DATA.
# INDICATES A STATION OR INSTRUMENT RELOCATION.
SEE STATION LOCATION TABLE ON PAGE 8.

SPECIFIC
PAGE 2
PM - INCLUDES LAST DAY OF PREVIOUS MONTH
ASOS - AUTOMATED SURFACE OBSERVING SYSTEM IN OPERATION DURING THESE MONTHS.

PAGE 3
(a) - LENGTH OF RECORD IN YEARS, ALTHOUGH INDIVIDUAL MONTHS MAY BE MISSING.
0.* OR * - THE VALUE IS BETWEEN 0.0 AND 0.05
NORMALS - BASED ON THE 1961-1990 RECORD PERIOD.
EXTREMES - DATES ARE THE MOST RECENT OCCURRENCE
WIND DIR.- NUMERALS SHOW TENS OF DEGREES CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM.
RESULTANT DIRECTIONS ARE GIVEN TO WHOLE DEGREES.
BOLD VALUES INDICATE EXTREME VALUES WHICH OCCURRED AFTER THE ASOS SYSTEM WAS COMMISSIONED.

PAGE 4B
RECORD = PERIOD OF RECORD
RECORD MEAN PRECIPITATION IS THE MEAN OF ALL DAILY PRECIPITATION AMOUNTS DURING THE PERIOD OF RECORD.
RECORD MAX(MIN) TEMPERATURE IS THE MEAN OF ALL DAILY MAX(MIN) TEMPERATURES DURING THE PERIOD OF RECORD.
RECORD MEAN TEMPERATURE IS THE SUM OF THE RECORD MAX AND RECORD MIN DIVIDED BY 2.
AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAX AND MIN TEMPERATURE DIVIDED BY 2.

EXCEPTIONS

PAGES 4A, 4B, 6A
RECORD MEANS ARE THROUGH THE CURRENT YEAR, BEGINNING IN 1930 FOR TEMPERATURE
1927 FOR PRECIPITATION
1933 FOR SNOWFALL

1995
MOLINE,
ILLINOIS (MLI)

The locality is in the heart of the Corn Belt. Agricultural crops include many important staple products in addition to corn. Cattle, hogs, horses, and poultry produced in Iowa and Illinois rank high in the nation. Close to the Mississippi River there is large scale truck gardening and considerable dairying. Field production of grains and livestock attains greater development farther away from the large streams, where the countryside is rolling prairie. Damaging droughts are not common. This, together with the variety of agricultural products, has led to designating the section as the Bread Basket of America.

The climate is favorable for many industries as evidenced by the large number and variety of manufacturing and other enterprises which have located and developed in the community. Among these are some of the largest producers of agricultural machinery in the world.

This area has a temperate continental climate, with a wide temperature range throughout the year. There are some intensely hot, unusually humid, periods in summer and severely cold periods in winter. Maxima of 90 degrees or more have occurred in summer as frequently as 55 days and zero or lower readings have occurred during every winter.

Freezing temperatures have occurred as late in spring as late May and as early in autumn as late September. Precipitation is usually well distributed throughout the year with the greatest amounts falling during the 177-day average crop growing season. Substantial weather changes frequently occur at three or four day intervals, as a direct result of proximity to some of the most important storm tracks.

STATION LOCATION

MOLINE, ILLINOIS

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE SEA LEVEL: GROUND TEMPERATURE SITE	ELEVATION ABOVE GROUND: WIND INSTRUMENTS	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET RAIN GAGE	WEIGHING RAIN GAGE	8 INCH RAIN GAGE	HYGROTHERMOMETER	AUTOMATIC OBSERVING EQUIPMENT *	REMARKS
NE Corner, Moline AP 4.5 miles S of Moline Post Office	10/1/26	12/27/39	NA	41°27′	90°31′	589	53	3	3				3			
Administration Building Quad City Airport	12/27/39	4/3/61	1200 ft. W	41°27′	90°31′	589 h582	62 f25	5 b36 c5 d36	5 a36 c5 d36	Unk		4 e5	15	g4		a - Moved to roof site 12/1/54. b - Moved to roof site 5/31/55. c - Moved to field site 6/7/56. d - Moved to roof site 4/16/58. e - Effective 4/16/58. f - Moved to field site 11/13/58. g - Telepsychrometer (5′) 6/7/56-3/1/60. Hygro. comm. 3/1/60. h - Effective 3/1/60.
Terminal Building Quad City Airport	4/4/61	Present	200 ft. SE	41°27′	90°31′	582	i25 n30	17 n4	17 n4	27 n7	NA k16 n4	i5 j16 n4	15 n4	i4 m4 n4	NA	i - Not moved 4/4/61. j - Effective 7/22/63. k - Added 6/1/64. m - Type change 6/27/85. n - Moved to field site 1/5/91.

* Type
M = AMOS
T = AUTOB
S = ASOS
W = AWOS

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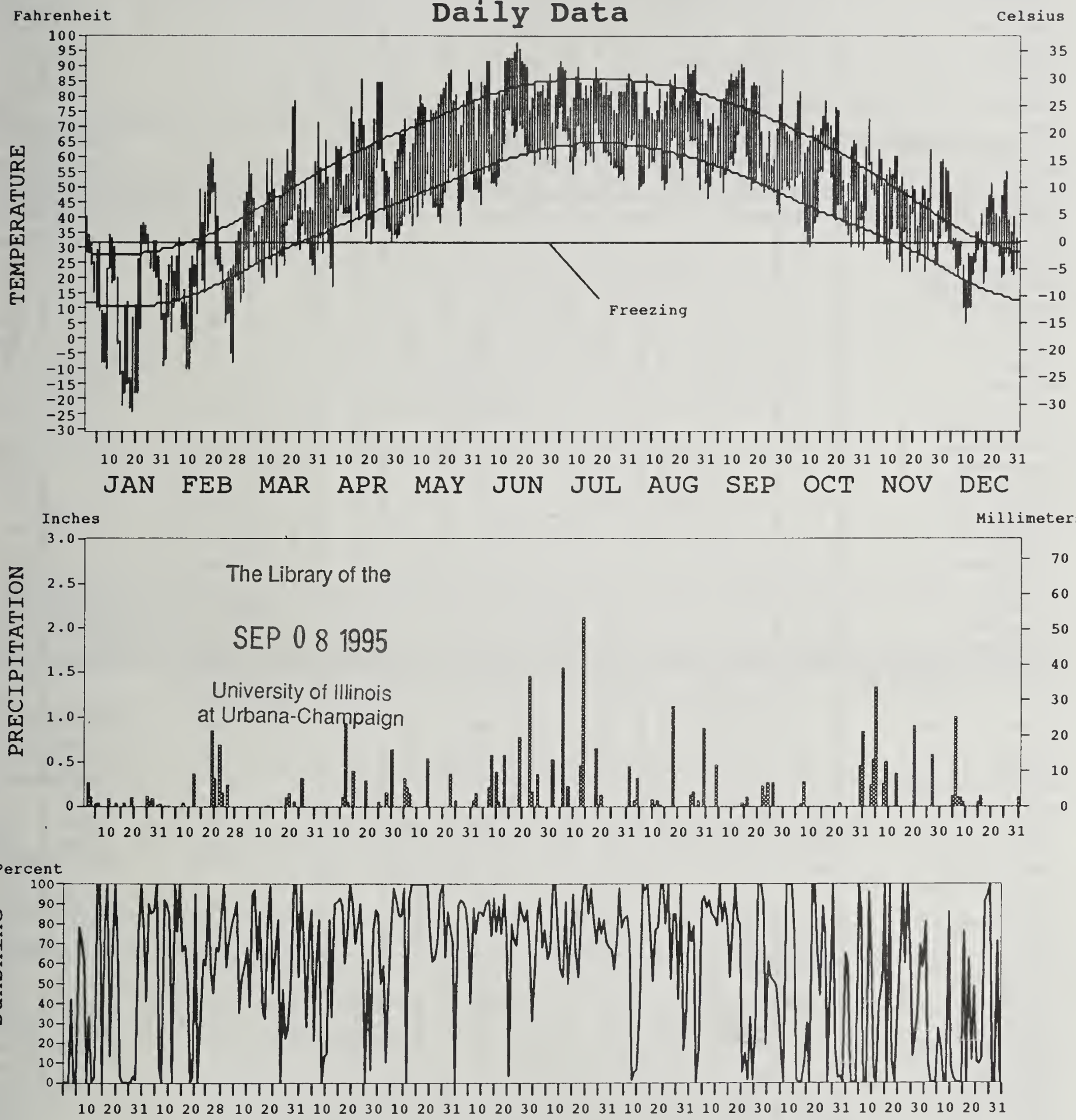
1994 LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

ISSN 0198-1862

MOLINE,
ILLINOIS (MLI)

Daily Data



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METEOROLOGICAL DATA FOR 1994

MOLINE, ILLINOIS

LATITUDE: 41° 27' N LONGITUDE: 90° 31' W ELEVATION: FT. GRND 582 BARO 605 TIME ZONE: CENTRAL WBAN: 14923

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F													
Averages													
-Daily Maximum	22.9	32.2	50.3	64.6	75.0	85.1	83.3	80.9	77.3	66.5	52.8	41.1	61.0
-Daily Minimum	6.4	13.2	28.4	39.7	46.1	60.6	62.4	59.5	54.7	44.7	34.3	25.5	39.6
-Monthly	14.7	22.7	39.4	52.2	60.6	72.9	72.9	70.2	66.0	55.6	43.6	33.3	50.3
-Monthly Dewpt.	9.5	14.7	27.7	34.3	45.5	61.7	64.6	62.2	56.0	43.5	35.0	27.4	40.2
Extremes													
-Highest	41	62	79	86	89	98	92	91	91	82	73	60	98
-Date	1	18	23	18	30	18	5	27	14	7	3	2	JUN 18
-Lowest	-23	-9	13	18	34	45	53	50	42	31	23	6	-23
-Date	19	10	2	7	2	4	30	29	29	30	25	11	JAN 19
DEGREE DAYS BASE 65 °F													
Heating	1557	1178	789	403	175	13	0	14	74	298	637	973	6111
Cooling	0	0	0	26	43	256	250	182	114	15	1	0	887
% OF POSSIBLE SUNSHINE	36	59	64	63	79	76	76	68	66	43	44	28	61
AVG. SKY COVER (tenths)													
Sunrise - Sunset	7.1	5.6	6.1	6.0	4.7	5.7	6.3	5.6	5.3	6.4	6.0	7.5	6.0
Midnight - Midnight	6.7	5.3	5.2	5.6	4.1	5.0	5.5	5.0	4.9	5.8	5.6	7.1	5.5
NUMBER OF DAYS:													
Sunrise to Sunset													
-Clear	7	12	8	9	11	7	5	9	11	9	9	6	103
-Partly Cloudy	4	2	9	7	11	16	14	10	8	5	8	5	99
-Cloudy	20	14	14	14	9	7	12	12	11	17	13	20	163
Precipitation													
.01 inches or more	13	9	5	9	6	12	8	12	8	7	8	8	105
Snow,Ice Pellets,Hail													
1.0 inches or more	6	5	0	0	0	0	0	0	0	0	0	1	12
Thunderstorms	0	0	2	2	2	11	9	7	0	1	3	0	37
Heavy Fog, visibility													
1/4 mile or less	2	3	1	0	0	0	1	0	3	0	1	5	16
Temperature F °													
-Maximum													
90° and above	0	0	0	0	0	12	5	2	2	0	0	0	21
32° and below	21	18	0	0	0	0	0	0	0	0	1	5	45
-Minimum													
32° and below	31	25	22	5	0	0	0	0	0	4	15	26	128
0 °and below	13	6	0	0	0	0	0	0	0	0	0	0	19
AVG. STATION PRESS. (mb)	1001.0	999.7	994.9	993.9	995.6	992.2	993.9	995.9	995.6	996.3	995.9	1001.0	996.3
RELATIVE HUMIDITY (%)													
Hour 00	79	77	73	62	77	87	89	88	86	76	79	83	80
Hour 06 (Local Time)	79	76	80	72	85	88	92	92	91	81	82	85	84
Hour 12	73	61	54	45	42	54	63	66	57	53	65	73	59
Hour 18	79	70	55	43	44	57	65	70	77	66	73	80	65
PRECIPITATION (inches):													
Water Equivalent													
-Total	1.04	2.69	0.64	2.64	1.67	4.83	5.69	3.40	1.53	1.67	4.71	1.64	32.15
-Greatest (24 hrs)	0.38	1.17	0.32	1.02	0.54	1.54	2.58	1.12	0.47	1.30	1.33	1.10	2.58
-Date	2- 3	19-20	26	11-12	14	23-24	13-14	18	4	30-31	5	6- 7	JUL 13-14
Snow,Ice pellets,Hail													
-Total	13.4	20.7	T	0.2	0.0	0.0	T	0.0	0.0	0.0	T	1.8	36.1
-Greatest (24 hrs)	5.1	9.6	T	0.2	0.0	0.0	T	0.0	0.0	0.0	T	1.0	9.6
-Date	2- 3	22-23	30	30			6				30	31	FEB 22-23
WIND:													
Resultant													
-Direction (!!)	301	284	287	263	255	232	233	236	219	212	229	262	254
-Speed (mph)	3.2	1.7	4.5	2.4	1.3	1.5	2.6	1.4	2.9	1.8	3.2	0.9	2.0
Average Speed (mph)	8.6	9.2	9.3	11.0	6.0	6.1	6.1	5.9	5.5	7.0	8.9	6.8	7.5
Fastest Obs. 1 Min.													
-Direction (!!)	29	29	31	27	32	35	36	32	30	19	25	30	27
-Speed (mph)	24	32	28	35	31	23	25	22	20	20	30	21	35
-Date	28	25	18	15	25	24	6	28	28	28	28	17	APR 15
Peak Gust													
-Direction (!!)	NW	W	W	SW	NW	NW	N	NW	NW	N	W	NW	SW
-Speed (mph)	33	43	45	49	41	36	37	32	24	32	45	33	49
-Date	17	25	23	26	23	20	6	28	28	31	28	17	APR 26

(!!) See Reference Notes on Page 6B

NORMALS, MEANS, AND EXTREMES

MOLINE, ILLINOIS

LATITUDE: 41° 27' N LONGITUDE: 90° 31' W ELEVATION: FT. GRND 582 BARO 605 TIME ZONE: CENTRAL WBAN: 14923

	(a)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F														
Normals														
-Daily Maximum		28.4	33.7	46.7	61.4	72.8	82.5	85.9	83.5	75.9	64.2	48.4	33.4	59.7
-Daily Minimum		11.3	15.9	28.1	39.4	49.9	59.6	64.5	61.8	53.3	41.8	30.7	17.5	39.5
-Monthly		19.9	24.8	37.4	50.4	61.4	71.1	75.2	72.7	64.7	53.0	39.6	25.4	49.6
Extremes														
-Record Highest	62	69	71	88	93	104	104	105	106	100	92	80	69	106
-Year		1989	1976	1986	1986	1934	1988	1940	1936	1939	1963	1933	1970	AUG 1936
-Record Lowest	62	-27	-25	-19	7	26	39	46	40	24	16	-9	-24	-27
-Year		1979	1979	1960	1982	1966	1993	1971	1986	1942	1988	1976	1989	JAN 1979
NORMAL DEGREE DAYS:														
Heating (base 65 °F)		1398	1126	856	438	188	10	0	11	73	384	762	1228	6474
Cooling (base 65 °F)		0	0	0	0	76	193	316	250	64	12	0	0	911
% OF POSSIBLE SUNSHINE	51	48	49	50	53	57	63	68	66	62	58	41	40	55
MEAN SKY COVER(tenths)														
Sunrise - Sunset	52	6.6	6.5	6.8	6.5	6.2	5.9	5.4	5.3	5.2	5.3	6.8	6.8	6.1
MEAN NUMBER OF DAYS:														
Sunrise to Sunset														
-Clear	61	7.9	7.2	6.5	6.6	7.6	7.4	9.9	10.2	11.6	11.6	7.3	7.0	100.9
-Partly Cloudy	61	6.9	6.3	7.8	8.6	9.3	10.6	11.8	11.0	7.9	7.6	6.6	6.2	100.6
-Cloudy	61	16.2	14.7	16.7	14.8	14.1	11.9	9.3	9.8	10.5	11.8	16.1	17.8	163.8
Precipitation														
.01 inches or more	62	9.1	8.0	11.0	10.9	11.8	10.1	9.7	9.0	8.8	7.7	8.6	9.2	113.9
Snow,Ice Pellets,Hail														
1.0 inches or more	62	2.6	2.1	1.7	0.2	0.0	0.0	0.0	0.0	0.0	0.*	0.7	2.3	9.7
Thunderstorms	61	0.3	0.5	2.2	4.5	6.7	8.3	8.4	7.1	4.4	2.4	1.2	0.7	46.9
Heavy Fog Visibility														
1/4 mile or less	60	2.2	2.0	2.0	0.7	0.8	0.6	0.7	1.9	1.6	1.8	1.2	1.9	17.6
Temperature °F														
-Maximum														
90° and above	34	0.0	0.0	0.0	0.1	1.2	5.6	8.5	6.0	1.8	0.1	0.0	0.0	23.2
32° and below	34	17.9	12.4	3.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	2.2	12.5	48.6
-Minimum														
32° and below	34	29.3	25.4	20.7	7.2	0.6	0.0	0.0	0.0	0.2	5.9	18.2	27.3	134.9
0° and below	34	7.9	4.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	3.6	16.1
AV. STATION PRES.(mb)	22	997.8	997.6	994.1	993.0	992.9	992.8	994.2	995.3	995.9	996.3	995.7	997.5	995.3
RELATIVE HUMIDITY (%)														
Hour 00	34	74	74	74	72	75	77	83	85	83	76	76	77	77
Hour 06 (Local Time)	34	75	76	78	78	80	81	85	89	88	81	80	79	81
Hour 12	34	66	64	60	54	53	53	58	59	57	54	63	69	59
Hour 18	34	70	67	62	54	52	53	59	63	66	63	70	74	63
PRECIPITATION (ins):														
Water Equivalent														
-Normal		1.54	1.23	2.98	3.90	4.30	4.27	4.95	4.22	4.02	2.93	2.51	2.23	39.08
-Maximum Monthly	65	4.39	2.80	7.43	11.30	11.43	13.21	11.76	15.23	14.18	9.41	6.77	4.99	15.23
-Year		1974	1985	1973	1973	1974	1993	1992	1987	1970	1941	1992	1982	AUG 1987
-Minimum Monthly	65	0.31	0.17	0.31	0.68	0.31	1.02	0.41	0.35	0.02	0.01	0.29	0.23	0.01
-Year		1961	1933	1958	1946	1992	1963	1991	1971	1979	1964	1933	1929	OCT 1964
-Maximum in 24 hrs	65	2.07	1.90	2.42	5.81	3.68	5.02	5.41	5.13	6.29	4.89	2.73	3.38	6.29
-Year		1960	1948	1985	1973	1970	1967	1963	1987	1961	1954	1961	1942	SEP 1961
Snow,Ice Pellets,Hail														
-Maximum Monthly	63	26.7	20.7	19.8	13.0	0.3	T	T	0.0	0.1	6.6	15.6	21.7	26.7
-Year		1979	1994	1972	1982	1935	1992	1994		1942	1967	1974	1978	JAN 1979
-Maximum in 24 hrs	61	16.4	10.1	11.0	8.2	0.3	T	T	0.0	0.1	6.5	8.5	11.4	16.4
-Year		1971	1975	1972	1970	1935	1992	1994		1942	1967	1975	1987	JAN 1971
WIND:														
Mean Speed (mph)	51	10.8	10.8	12.0	12.0	10.2	9.0	7.6	7.1	8.0	9.2	10.8	10.5	9.8
Prevailing Direction														
through 1963		WNW	WNW	WNW	NW	E	S	E	E	S	S	WNW	WNW	WNW
Fastest Obs. 1 Min.														
-Direction (!!)	5	29	29	27	26	30	29	29	32	26	25	28	07	26
-Speed (mph)		40	32	43	46	40	35	33	38	32	30	33	36	46
-Year		1990	1994	1991	1992	1988	1993	1992	1988	1988	1990	1991	1990	APR 1992
Peak Gust														
-Direction (!!)	11	W	NW	SW	SW	NW	W	NW	N	SW	SW	W	NW	N
-Speed (mph)	11	59	54	69	69	60	59	52	81	49	61	52	56	81
-Date		1990	1990	1991	1984	1988	1990	1984	1987	1988	1984	1988	1985	AUG 1987

(!!) See Reference Notes on Page 6B

PRECIPITATION (inches) MOLINE, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1965	4.08	0.97	2.52	7.92	4.04	2.07	4.78	9.31	8.27	0.88	1.93	2.82	49.59
1966	2.01	0.89	0.85	3.96	6.39	4.25	7.74	0.77	2.80	4.38	1.12	2.52	37.68
1967	2.00	1.11	1.68	4.91	1.70	8.15	4.15	3.62	4.99	6.23	2.26	1.56	42.36
1968	0.80	0.32	1.96	3.57	2.59	3.70	3.91	2.16	5.70	1.09	3.29	2.76	31.85
1969	3.28	0.21	2.25	3.11	3.40	6.97	11.39	2.00	2.50	4.63	0.53	1.52	41.79
1970	0.54	0.57	2.62	4.66	11.07	3.25	6.27	3.61	14.18	1.75	1.25	1.95	51.72
1971	1.79	1.57	1.99	1.86	3.14	2.36	11.22	0.35	4.54	2.64	2.21	4.77	38.44
1972	1.19	1.24	3.73	5.19	4.24	8.66	3.79	8.20	3.29	2.39	2.75	1.98	46.65
1973	2.53	1.94	7.43	11.30	6.96	6.58	2.63	2.30	6.74	3.06	1.15	3.74	56.36
1974	4.39	1.57	2.94	5.08	11.43	8.83	1.73	3.37	1.08	1.99	2.59	1.83	46.83
1975	1.50	1.75	3.30	2.88	3.23	3.50	2.71	3.23	1.99	0.90	2.98	0.98	28.95
1976	0.88	1.11	3.67	4.21	4.13	2.02	3.34	0.60	1.89	2.13	0.65	0.34	24.97
1977	0.87	0.62	4.61	1.57	2.66	5.18	6.04	6.98	4.80	4.09	2.78	1.76	41.96
1978	0.59	0.67	0.78	3.02	4.65	3.50	3.24	2.47	3.91	1.95	3.32	3.17	31.27
1979	2.72	1.02	2.77	4.01	2.86	2.85	4.40	6.94	0.02	2.51	2.13	2.27	34.50
1980	1.31	1.55	1.74	2.34	4.01	4.97	3.46	9.09	2.94	1.63	0.70	2.75	36.49
1981	0.32	2.45	0.69	4.48	1.48	5.51	3.07	6.90	4.20	4.42	2.42	0.72	36.66
1982	2.08	0.45	3.85	3.33	5.03	3.61	8.83	2.89	1.94	3.38	3.64	4.99	44.02
1983	0.55	1.50	2.88	4.88	2.06	5.21	2.79	0.96	5.30	2.36	5.78	2.55	36.82
1984	0.84	0.79	3.45	4.31	4.97	3.75	4.63	1.31	2.32	6.60	2.91	3.51	39.39
1985	1.04	2.80	4.71	2.14	3.46	2.26	3.33	2.76	1.71	8.54	6.35	2.21	41.31
1986	0.38	2.53	1.35	3.15	5.54	5.10	6.34	3.24	5.63	4.23	1.03	1.95	40.47
1987	0.91	0.89	2.57	1.49	3.35	1.54	1.91	15.23	1.11	0.79	3.33	4.46	37.58
1988	1.74	1.08	2.36	1.36	2.32	1.16	1.79	4.89	1.97	2.37	3.14	1.57	25.75
1989	1.21	1.21	1.85	3.62	3.42	3.31	3.10	6.17	5.42	1.18	0.71	0.73	31.93
1990	1.66	1.99	6.68	3.50	7.68	9.59	3.56	6.42	1.04	2.35	2.87	3.07	50.41
1991	1.19	0.43	6.31	3.69	3.87	1.32	0.41	2.06	2.52	5.80	5.03	1.86	34.49
1992	1.18	1.91	1.07	2.88	0.31	2.11	11.76	1.70	4.80	1.49	6.77	3.96	39.94
1993	2.01	0.92	4.87	5.48	3.61	13.21	5.82	7.76	4.11	0.37	1.50	1.13	50.79
1994	1.04	2.69	0.64	2.64	1.67	4.83	5.69	3.40	1.53	1.67	4.71	1.64	32.15
Record Mean	1.53	1.32	2.70	3.62	3.90	4.42	4.27	3.84	3.60	2.74	2.37	1.88	36.20

(!!) See Reference Notes on Page 6B

AVERAGE TEMPERATURE (deg. F) MOLINE, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1965	21.4	25.7	26.9	49.2	65.9	69.6	74.9	71.1	63.5	53.6	40.7	34.5	49.8
1966	14.3	24.8	39.2	47.0	56.3	70.5	77.9	70.6	62.9	52.5	41.7	28.1	48.8
1967	26.0	18.7	39.0	51.6	56.4	70.9	71.4	67.7	62.1	52.1	36.1	28.5	48.4
1968	21.0	22.7	41.9	51.3	57.2	72.1	73.1	73.5	63.1	53.2	37.3	24.5	49.3
1969	17.9	27.9	32.2	51.6	61.7	67.1	75.0	73.7	64.9	51.7	37.9	24.3	48.8
1970	13.1	24.7	33.6	51.8	64.9	70.7	75.7	72.9	65.2	53.9	39.2	28.9	49.5
1971	14.8	25.9	34.7	50.9	58.0	76.6	70.7	71.9	68.7	59.9	40.0	31.6	50.3
1972	18.6	20.7	36.0	48.0	63.0	69.4	74.6	74.0	66.7	50.2	37.3	22.3	48.4
1973	27.1	28.7	45.4	49.7	57.6	72.3	74.9	75.1	65.7	57.3	40.4	23.7	51.5
1974	21.6	26.8	38.5	53.3	58.8	67.5	77.3	70.3	60.4	53.7	40.1	28.6	49.8
1975	24.9	25.0	30.6	45.1	63.8	72.3	75.0	75.1	60.9	56.2	45.0	30.3	50.4
1976	19.1	35.2	41.2	52.9	57.5	70.5	75.8	71.8	63.0	46.8	30.1	19.6	48.6
1977	8.2	27.1	43.6	56.6	68.9	70.0	77.5	71.0	65.5	51.2	38.7	21.7	50.0
1978	12.4	14.1	33.0	50.8	60.2	71.0	74.0	73.2	69.2	51.5	39.2	22.7	47.6
1979	6.3	13.2	36.3	47.4	61.9	71.2	73.5	72.0	64.3	52.1	37.0	31.7	47.2
1980	23.4	19.2	33.5	49.1	62.7	69.2	77.6	75.8	65.7	48.6	39.7	26.6	49.3
1981	23.4	27.1	39.4	54.3	57.5	71.0	73.3	71.2	63.5	49.9	41.1	25.3	49.7
1982	10.6	21.4	34.6	44.7	66.1	66.2	75.4	71.3	64.2	54.7	39.2	35.3	48.7
1983	26.9	32.0	38.9	45.5	57.8	72.9	79.4	79.6	65.6	53.1	42.9	14.0	50.7
1984	19.6	34.5	31.2	49.1	58.2	73.6	73.1	75.2	62.9	55.1	39.3	31.1	50.2
1985	14.3	21.8	42.5	57.1	64.9	69.4	74.2	69.7	66.1	53.6	35.2	14.9	48.6
1986	25.1	22.9	42.5	54.6	63.0	71.7	77.6	68.3	67.3	53.4	34.8	30.0	50.9
1987	25.2	34.4	42.2	52.6	66.8	74.6	79.4	72.9	64.4	47.4	44.0	31.0	52.9
1988	20.2	21.7	38.7	50.6	64.1	73.1	78.2	77.8	67.0	47.3	40.3	29.0	50.7
1989	32.7	17.4	37.0	49.9	58.8	69.2	76.2	72.2	61.9	54.6	38.6	15.6	48.7
1990	32.7	31.3	42.8	50.0	57.3	71.3	74.2	73.7	66.9	51.7	44.2	24.6	51.7
1991	18.4	31.7	41.8	54.2	67.3	74.6	75.3	73.9	64.8	53.3	33.9	31.0	51.7
1992	29.1	34.3	41.3	49.2	61.0	68.6	70.5	67.4	62.5	52.2	37.5	27.4	50.1
1993	24.8	23.5	34.7	48.5	63.0	70.3	75.6	74.9	61.0	51.0	37.2	29.4	49.5
1994	14.7	22.7	39.4	52.2	60.6	72.9	72.9	70.2	66.0	55.6	43.6	33.3	50.3
Record Mean	21.6	26.1	36.8	50.3	61.3	71.2	75.2	73.1	65.0	53.5	39.0	26.6	50.0
Max	30.1	34.8	46.0	61.2	72.6	82.3	86.2	84.1	76.5	65.0	48.0	34.5	60.1
Min	13.0	17.4	27.5	39.4	50.0	60.1	64.2	62.0	53.4	42.1	30.0	18.7	39.8

(!!) See Reference Notes on Page 6B

HEATING DEGREE DAYS Base 65 deg. F MOLINE, ILLINOIS

SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1965-66	0	21	115	363	722	939	1568	1119	794	533	287	31	6492
1966-67	0	6	116	386	695	1137	1202	1289	802	404	305	10	6352
1967-68	21	33	136	424	860	1127	1354	1221	711	409	248	18	6562
1968-69	8	15	96	404	826	1247	1458	1032	1010	398	172	57	6723
1969-70	0	0	80	445	805	1253	1607	1120	967	419	118	21	6835
1970-71	0	2	92	350	764	1111	1556	1088	931	425	242	0	6561
1971-72	17	3	94	195	740	1026	1434	1280	893	504	155	25	6366
1972-73	8	7	80	459	824	1319	1170	1013	598	452	223	1	6154
1973-74	0	0	78	258	733	1274	1338	1061	812	360	235	32	6181
1974-75	0	8	180	349	739	1122	1235	1114	1058	593	117	14	6529
1975-76	9	0	162	297	594	1072	1413	855	731	385	235	2	5755
1976-77	0	5	123	569	1038	1403	1755	1059	656	286	54	15	6963
1977-78	0	5	50	420	780	1337	1625	1417	986	423	229	13	7285
1978-79	1	4	59	415	767	1305	1820	1445	884	521	172	12	7405
1979-80	5	22	95	415	831	1027	1280	1324	966	481	129	27	6602
1980-81	0	1	77	503	755	1180	1281	1055	783	322	253	3	6213
1981-82	12	9	91	459	710	1226	1682	1214	936	604	62	35	7040
1982-83	0	14	110	333	765	916	1175	917	802	578	228	17	5855
1983-84	1	0	110	377	654	1578	1406	880	1039	482	225	2	6754
1984-85	3	4	171	303	761	1042	1568	1203	692	293	66	25	6131
1985-86	0	4	133	347	888	1546	1231	1174	705	338	104	9	6479
1986-87	0	30	55	358	898	1078	1227	850	701	385	101	4	5687
1987-88	0	23	84	540	627	1046	1384	1250	807	427	90	15	6293
1988-89	1	9	45	544	736	1109	998	1326	863	461	240	28	6360
1989-90	0	4	138	334	785	1527	995	937	691	483	241	18	6153
1990-91	2	0	97	422	622	1248	1437	928	719	339	107	0	5921
1991-92	0	0	147	370	927	1049	1107	884	726	473	181	27	5891
1992-93	3	33	147	405	819	1158	1241	1156	936	488	116	53	6555
1993-94	0	1	153	433	827	1096	1557	1178	789	403	175	13	6625
1994-95	0	14	74	298	637	973							

(!!) See Reference Notes on Page 6B

COOLING DEGREE DAYS Base 65 deg. F MOLINE, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1969	0	0	0	1	77	130	320	276	86	41	0	0	931
1970	0	0	0	32	119	198	341	256	105	15	0	0	1066
1971	0	0	0	9	32	355	203	225	212	44	0	0	1080
1972	0	0	0	3	102	165	312	294	138	6	0	0	1020
1973	0	0	0	2	2	226	312	323	103	27	0	0	995
1974	0	0	0	17	50	113	389	180	45	3	0	0	797
1975	0	0	0	1	85	241	325	319	44	29	0	0	1044
1976	0	0	0	26	12	175	341	221	72	13	0	0	860
1977	0	0	0	44	182	173	397	199	73	0	0	0	1068
1978	0	0	1	0	87	202	288	267	195	5	0	0	1045
1979	0	0	0	0	83	206	272	245	79	22	0	0	907
1980	0	0	0	11	65	158	395	343	107	1	0	0	1080
1981	0	0	0	8	27	191	275	209	50	0	0	0	760
1982	0	0	0	0	102	78	327	215	95	20	0	0	837
1983	0	0	0	1	12	260	453	459	138	14	0	0	1337
1984	0	0	0	9	21	268	261	327	116	3	0	0	1005
1985	0	0	0	64	71	165	292	154	172	0	0	0	918
1986	0	0	12	31	48	216	396	143	133	4	0	0	983
1987	0	0	0	20	162	298	453	277	71	0	3	0	1284
1988	0	0	0	0	69	263	416	410	112	3	0	0	1273
1989	0	0	4	13	53	159	356	236	52	20	0	0	893
1990	0	0	10	40	8	216	294	280	159	18	3	0	1028
1991	0	0	6	21	183	297	324	284	149	16	0	0	1280
1992	0	0	0	6	61	143	181	115	77	13	0	0	596
1993	0	0	0	0	60	217	335	317	39	8	0	0	976
1994	0	0	0	26	43	256	250	182	114	15	1	0	887

(!!) See Reference Notes on Page 6B

SNOWFALL (inches) MOLINE, ILLINOIS

SEASON	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1965-66	0.0	0.0	0.0	0.0	0.3	5.7	6.0	0.8	0.7	0.1	T	0.0	13.6
1966-67	0.0	0.0	0.0	0.0	T	7.2	14.4	13.2	2.2	1.1	0.0	0.0	38.1
1967-68	0.0	0.0	0.0	6.6	0.3	3.2	8.6	2.8	1.1	T	0.0	0.0	22.6
1968-69	0.0	0.0	0.0	T	5.9	5.4	6.2	0.9	5.6	0.0	T	0.0	24.0
1969-70	0.0	0.0	0.0	0.0	1.5	15.4	7.2	6.1	12.7	8.3	0.0	0.0	51.2
1970-71	0.0	0.0	0.0	0.0	0.2	2.2	17.7	2.6	7.8	T	0.0	0.0	30.5
1971-72	0.0	0.0	0.0	0.0	5.9	0.3	11.8	13.7	19.8	2.6	0.0	0.0	54.1
1972-73	0.0	0.0	0.0	2.0	6.7	6.6	0.4	8.6	0.5	0.9	0.0	0.0	25.7
1973-74	0.0	0.0	0.0	0.0	T	11.4	12.7	7.4	3.0	0.6	0.0	0.0	35.1
1974-75	0.0	0.0	0.0	0.0	15.6	8.8	7.6	19.3	12.2	6.2	0.0	0.0	69.7
1975-76	0.0	0.0	0.0	0.0	9.9	2.5	8.6	0.1	0.6	0.0	T	0.0	21.7
1976-77	0.0	0.0	0.0	0.0	7.7	4.1	12.3	2.5	10.8	1.0	0.0	0.0	38.4
1977-78	0.0	0.0	0.0	0.0	4.8	20.8	6.1	6.8	6.5	T	0.0	0.0	45.0
1978-79	0.0	0.0	0.0	0.0	7.1	21.7	26.7	4.5	3.4	0.6	0.0	0.0	64.0
1979-80	0.0	0.0	0.0	T	1.9	0.8	4.2	13.1	7.5	9.5	0.0	0.0	37.0
1980-81	0.0	0.0	0.0	2.4	1.1	4.5	5.3	5.6	T	0.0	0.0	0.0	18.9
1981-82	0.0	0.0	0.0	T	3.3	4.3	13.6	4.5	6.6	13.0	0.0	0.0	45.3
1982-83	0.0	0.0	0.0	0.0	T	0.5	4.7	6.2	12.7	0.7	0.0	0.0	24.8
1983-84	0.0	0.0	0.0	T	0.9	18.9	9.9	1.9	13.6	0.1	0.0	0.0	45.3
1984-85	0.0	0.0	0.0	0.0	T	9.3	13.4	7.5	0.2	T	0.0	0.0	30.4
1985-86	0.0	0.0	0.0	0.0	3.1	11.5	3.7	7.8	0.2	0.4	0.0	0.0	26.7
1986-87	0.0	0.0	0.0	0.0	2.2	0.2	9.1	T	0.1	0.0	0.0	0.0	11.6
1987-88	0.0	0.0	0.0	T	0.6	15.9	2.7	16.4	0.5	0.0	0.0	0.0	36.1
1988-89	0.0	0.0	0.0	T	1.0	2.5	T	13.8	0.4	T	T	0.0	17.7
1989-90	0.0	0.0	0.0	T	0.1	8.2	6.3	10.3	T	T	0.0	T	24.9
1990-91	0.0	0.0	0.0	0.0	T	7.5	11.1	1.5	5.4	0.0	0.0	0.0	25.5
1991-92	0.0	0.0	T	T	1.0	6.7	5.2	1.4	3.6	T	0.0	T	17.9
1992-93	0.0	0.0	0.0	T	0.6	7.2	7.0	6.4	3.0	1.0	T	0.0	25.2
1993-94	0.0	0.0	0.0	T	3.6	5.2	13.4	20.7	T	0.2	0.0	0.0	43.1
1994-95	T	0.0	0.0	0.0	T	1.8							
Record Mean	T	0.0	T	0.2	2.1	7.0	7.9	6.2	5.8	1.0	T	T	30.3

(!!) See Reference Notes on Page 6B

REFERENCE NOTES MOLINE, ILLINOIS

GENERAL
T - TRACE AMOUNT.
BLANK ENTRIES DENOTE MISSING/UNREPORTED DATA.
# INDICATES A STATION OR INSTRUMENT RELOCATION.
SEE STATION LOCATION TABLE ON PAGE 8.

SPECIFIC
PAGE 2
PM - INCLUDES LAST DAY OF PREVIOUS MONTH
ASOS - AUTOMATED SURFACE OBSERVING SYSTEM IN OPERATION DURING THESE MONTHS.

PAGE 3
(a) - LENGTH OF RECORD IN YEARS, ALTHOUGH INDIVIDUAL MONTHS MAY BE MISSING.
0.* OR * - THE VALUE IS BETWEEN 0.0 AND 0.05
NORMALS - BASED ON THE 1961-1990 RECORD PERIOD.
EXTREMES - DATES ARE THE MOST RECENT OCCURRENCE
WIND DIR.- NUMERALS SHOW TENS OF DEGREES CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM.
RESULTANT DIRECTIONS ARE GIVEN TO WHOLE DEGREES.
BOLD VALUES INDICATE EXTREME VALUES WHICH OCCURRED AFTER THE ASOS SYSTEM WAS COMMISSIONED.

PAGE 4B
RECORD = PERIOD OF RECORD
RECORD MEAN PRECIPITATION IS THE MEAN OF ALL DAILY PRECIPITATION AMOUNTS DURING THE PERIOD OF RECORD.
RECORD MAX(MIN) TEMPERATURE IS THE MEAN OF ALL DAILY MAX(MIN) TEMPERATURES DURING THE PERIOD OF RECORD.
RECORD MEAN TEMPERATURE IS THE SUM OF THE RECORD MAX AND RECORD MIN DIVIDED BY 2.
AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAX AND MIN TEMPERATURE DIVIDED BY 2.

EXCEPTIONS

PAGES 4A, 4B, 6A
RECORD MEANS ARE THROUGH THE CURRENT YEAR, BEGINNING IN 1930 FOR TEMPERATURE
1927 FOR PRECIPITATION
1933 FOR SNOWFALL

1994
MOLINE,
ILLINOIS (MLI)

The locality is in the heart of the Corn Belt. Agricultural crops include many important staple products in addition to corn. Cattle, hogs, horses, and poultry produced in Iowa and Illinois rank high in the nation. Close to the Mississippi River there is large scale truck gardening and considerable dairying. Field production of grains and livestock attains greater development farther away from the large streams, where the countryside is rolling prairie. Damaging droughts are not common. This, together with the variety of agricultural products, has led to designating the section as the Bread Basket of America.

The climate is favorable for many industries as evidenced by the large number and variety of manufacturing and other enterprises which have located and developed in the community. Among these are some of the largest producers of agricultural machinery in the world.

This area has a temperate continental climate, with a wide temperature range throughout the year. There are some intensely hot, unusually humid, periods in summer and severely cold periods in winter. Maxima of 90 degrees or more have occurred in summer as frequently as 55 days and zero or lower readings have occurred during every winter.

Freezing temperatures have occurred as late in spring as late May and as early in autumn as late September. Precipitation is usually well distributed throughout the year with the greatest amounts falling during the 177-day average crop growing season. Substantial weather changes frequently occur at three or four day intervals, as a direct result of proximity to some of the most important storm tracks.

STATION LOCATION

MOLINE, ILLINOIS

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE SEA LEVEL: GROUND TEMPERATURE SITE	ELEVATION ABOVE GROUND: WIND INSTRUMENTS	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET RAIN GAGE	WEIGHING RAIN GAGE	8 INCH RAIN GAGE	HYGROTHERMOMETER	AUTOMATIC OBSERVING EQUIPMENT *	* Type: M = AMOS, T = AUTOB, S = ASOS, W = AWOS — REMARKS
NE Corner, Moline AP 4.5 miles S of Moline Post Office	10/1/26	12/27/39	NA	41°27'	90°31'	589	53	3	3				3			
Administration Building Quad City Airport	12/27/39	4/3/61	1200 ft. W	41°27'	90°31'	589 h582	62 f25	5 b36 c5 d36	5 a36 c5 d36	Unk		4 e5	15	g4		a - Moved to roof site 12/1/54. b - Moved to roof site 5/31/55. c - Moved to field site 6/7/56. d - Moved to roof site 4/16/58. e - Effective 4/16/58. f - Moved to field site 11/13/58. g - Telepsychrometer (5') 6/7/56-3/1/60. Hygro. comm. 3/1/60. h - Effective 3/1/60.
Terminal Building Quad City Airport	4/4/61	Present	200 ft. SE	41°27'	90°31'	582	i25 n30	17 n4	17 n4	27 n7	NA k16 n4	j5 j16 n4	15 n4	i4 m4 n4	NA	i - Not moved 4/4/61. j - Effective 7/22/63. k - Added 6/1/64. m - Type change 6/27/85. n - Moved to field site 1/5/91.

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ISSN 0198-1862

1993 LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

MOLINE,
ILLINOIS

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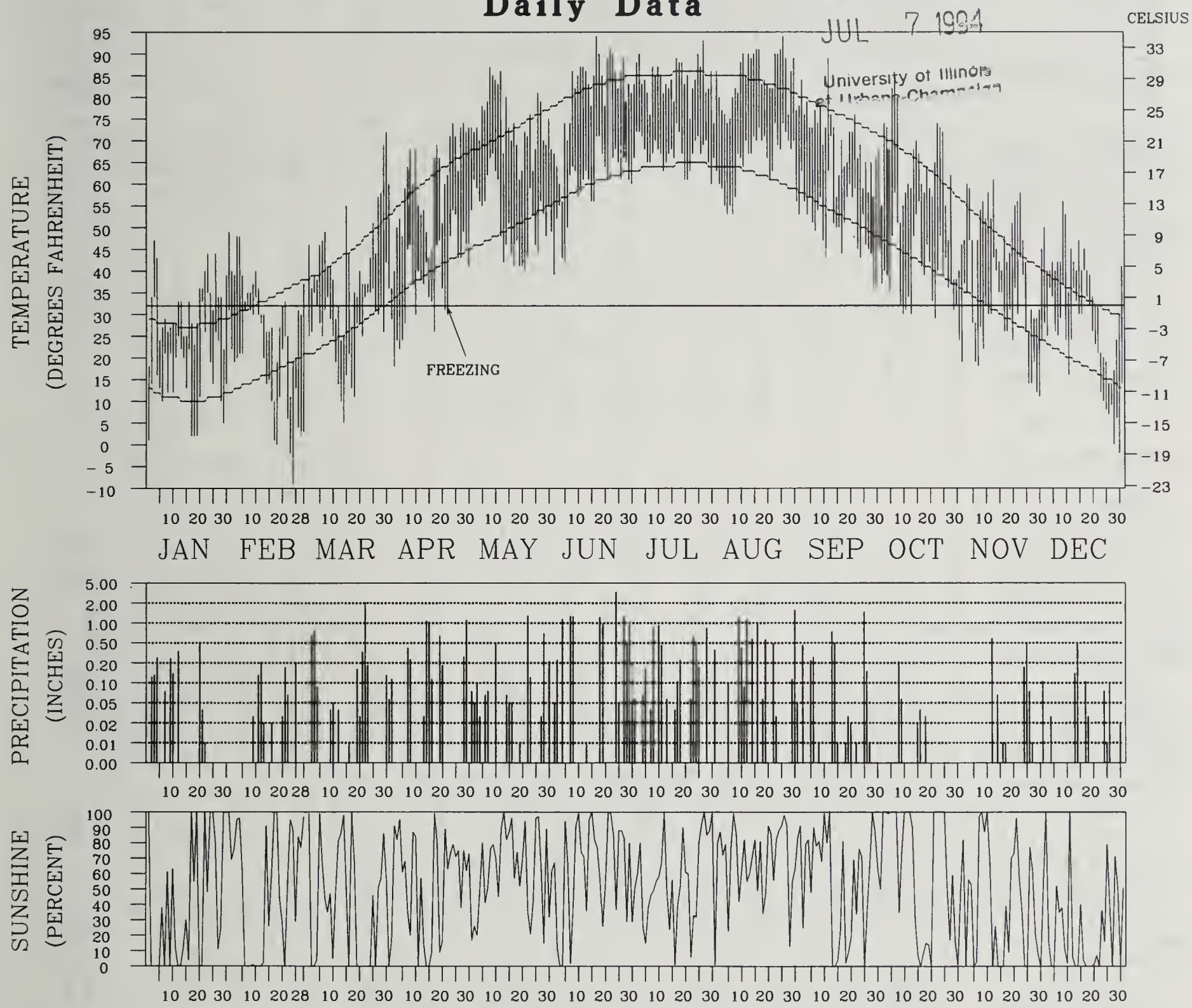

TEMPERATURE DEPICTS NORMAL MAXIMUM, NORMAL MINIMUM AND ACTUAL DAILY HIGH AND LOW VALUES (FAHRENHEIT)
PRECIPITATION IS MEASURED IN INCHES, SCALE IS NON-LINEAR
SUNSHINE IS PERCENT OF THE POSSIBLE SUNSHINE

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER, ASHEVILLE, NORTH CAROLINA, 28801

Kenneth D. Hadeen
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

noaa
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE
NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

METEOROLOGICAL DATA FOR 1993

MOLINE, ILLINOIS

LATITUDE: 41°27' N LONGITUDE: 90°31' W ELEVATION: FT. GRND 582 BARO 605 TIME ZONE: CENTRAL WBAN: 14923

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:													
Averages													
-Daily Maximum	32.4	30.8	42.9	59.6	74.1	80.9	84.0	84.5	70.5	62.4	46.1	36.2	58.7
-Daily Minimum	17.1	16.2	26.4	37.3	51.8	59.6	67.2	65.2	51.5	39.6	28.3	22.5	40.2
-Monthly	24.8	23.5	34.7	48.5	63.0	70.3	75.6	74.9	61.0	51.0	37.2	29.4	49.5
-Monthly Dewpt.	18.9	18.0	27.9	38.1	51.0	60.8	68.6	68.0	52.8	38.8	28.9	22.0	41.2
Extremes													
-Highest	49	48	72	74	87	94	93	94	89	85	61	56	94
-Date	31	4	30	28	8	17	27	26	12	7	13	9	AUG 26
-Lowest	1	-9	5	18	40	39	60	53	36	24	11	-2	-9
-Date	1	24	14	2	21	1	30	7	30	31	30	30	FEB 24
DEGREE DAYS BASE 65 °F:													
Heating	1241	1156	936	488	116	53	0	1	153	433	827	1096	6500
Cooling	0	0	0	0	60	217	335	317	39	8	0	0	976
% OF POSSIBLE SUNSHINE	44	49	39	54	62	62	55	70	56	62	41	26	53
AVG. SKY COVER (tenths)													
Sunrise - Sunset	6.8	6.9	7.5	7.3	7.1	6.2	7.1	5.9	6.3	4.7	7.2	7.8	6.7
Midnight - Midnight	6.5	6.2	7.1	6.7	6.6	6.2	6.5	5.1	6.2	4.5	6.7	7.4	6.3
NUMBER OF DAYS:													
Sunrise to Sunset													
-Clear	8	7	5	3	5	8	4	3	8	15	7	3	76
-Partly Cloudy	4	4	6	10	10	7	12	18	7	4	2	7	91
-Cloudy	19	17	20	17	16	15	15	10	15	12	21	21	198
Precipitation .01 inches or more	10	9	14	11	16	14	17	14	14	5	8	10	142
Snow,Ice pellets,hail 1.0 inches or more	3	3	1	0	0	0	0	0	0	0	2	2	11
Thunderstorms	0	1	1	4	8	14	12	13	5	0	0	0	58
Heavy Fog, visibility 1/4 mile or less	3	5	7	0	0	0	2	1	2	1	0	2	23
Temperature °F													
-Maximum													
90° and above	0	0	0	0	0	4	3	9	0	0	0	0	16
32° and below	15	15	5	0	0	0	0	0	0	0	6	10	51
-Minimum													
32° and below	28	27	23	10	0	0	0	0	0	8	20	24	140
0° and below	0	3	0	0	0	0	0	0	0	0	0	2	5
AVG. STATION PRESS. (mb)	1001.2	1000.0	997.0	991.5	992.6	992.9	992.9	994.9	995.3	995.8	996.6	995.9	995.6
RELATIVE HUMIDITY (%)													
Hour 00	83	83	85	79	79	84	90	93	86	77	78	76	83
Hour 06 (Local Time)	82	85	87	86	82	87	90	94	92	81	81	81	86
Hour 12 (Local Time)	71	71	70	56	55	61	72	66	64	50	63	69	64
Hour 18 (Local Time)	79	76	70	58	57	63	72	74	74	59	72	74	69
PRECIPITATION (inches):													
Water Equivalent													
-Total	2.01	0.92	4.87	5.48	3.61	13.21	5.82	7.76	4.11	0.37	1.50	1.13	50.79
-Greatest (24 hrs)	0.54	0.36	2.20	1.95	1.51	3.70	0.95	1.73	1.56	0.28	0.62	0.60	3.70
-Date	20-21	11-12	22-23	14-15	22-23	24-25	10	9-10	25	8- 9	12-13	13-14	JUN 24-25
Snow,Ice pellets,hail													
-Total	7.0	6.4	3.0	1.0	T	0.0	0.0	0.0	0.0	T	3.6	5.2	26.2
-Greatest (24 hrs)	4.5	2.5	1.9	0.7	T	0.0	0.0	0.0	0.0	T	3.0	2.4	4.5
-Date	9-10	25	19	1	28					30	25-26	24-25	JAN 9-10
WIND:													
Resultant													
-Direction (!!)	279	324	349	027	249	214	210	218	257	272	238	277	268
-Speed (mph)	3.2	2.0	2.6	1.6	1.8	1.9	2.1	1.2	1.9	3.8	3.5	3.0	1.7
Average Speed (mph)	9.2	8.7	9.4	9.0	8.3	7.1	5.7	4.6	5.6	7.2	8.5	8.3	7.6
Fastest Obs. 1 Min.													
-Direction (!!)	30	29	32	25	29	29	36	28	31	31	29	31	29
-Speed (mph)	25	22	25	23	30	35	26	23	20	24	30	30	35
-Date	28	23	10	24	24	29	10	16	28	28	19	29	JUN 29
Peak Gust													
-Direction (!!)	NW	E	NW	W	W	SE	SW	NW	S	NW	NW	NW	SE
-Speed (mph)	37	37	37	35	40	47	45	41	32	38	39	44	47
-Date	28	11	16	24	24	24	8	14	30	21	19	29	JUN 24

(!!) See Reference Notes on Page 6B

NORMALS, MEANS, AND EXTREMES

MOLINE, ILLINOIS

LATITUDE: 41°27'N LONGITUDE: 90°31' W ELEVATION: FT. GRND 582 BARO 605 TIME ZONE: CENTRAL WBAN: 14923

	(a)	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:														
Normals														
-Daily Maximum		28.0	33.7	44.8	61.1	72.5	82.1	85.4	83.6	76.2	64.8	48.0	34.3	59.5
-Daily Minimum		11.0	16.4	26.5	39.6	50.1	59.9	64.3	62.1	53.2	42.1	30.0	18.4	39.5
-Monthly		19.5	25.1	35.7	50.4	61.3	71.0	74.9	72.9	64.7	53.5	39.0	26.4	49.5
Extremes														
-Record Highest	61	69	71	88	93	104	104	105	106	100	92	80	69	106
-Year		1989	1976	1986	1986	1934	1988	1940	1936	1939	1963	1933	1970	AUG 1936
-Record Lowest	61	-27	-25	-19	7	26	39	46	40	24	16	-9	-24	-27
-Year		1979	1979	1960	1982	1966	1993	1971	1986	1942	1988	1976	1989	JAN 1979
NORMAL DEGREE DAYS:														
Heating (base 65°F)		1411	1117	908	438	177	20	0	5	75	370	780	1197	6498
Cooling (base 65°F)		0	0	0	0	62	200	307	250	66	14	0	0	899
% OF POSSIBLE SUNSHINE	50	48	49	49	53	57	63	67	66	62	58	41	41	55
MEAN SKY COVER (tenths)														
Sunrise - Sunset	51	6.5	6.5	6.8	6.6	6.2	5.9	5.4	5.3	5.2	5.3	6.8	6.8	6.1
MEAN NUMBER OF DAYS:														
Sunrise to Sunset														
-Clear	60	7.9	7.2	6.5	6.6	7.5	7.4	10.0	10.3	11.6	11.6	7.3	7.0	100.8
-Partly Cloudy	60	7.0	6.4	7.8	8.6	9.2	10.6	11.8	11.0	7.9	7.7	6.6	6.2	100.6
-Cloudy	60	16.1	14.7	16.7	14.8	14.2	12.0	9.2	9.7	10.5	11.7	16.2	17.8	163.8
Precipitation .01 inches or more	61	9.0	8.0	11.0	10.9	11.9	10.1	9.7	9.0	8.8	7.7	8.6	9.3	114.1
Snow, Ice pellets, hail 1.0 inches or more	61	2.6	2.1	1.7	0.2	0.0	0.0	0.0	0.0	0.0	0.*	0.7	2.3	9.6
Thunderstorms	60	0.3	0.5	2.2	4.5	6.8	8.3	8.4	7.1	4.5	2.5	1.2	0.7	47.1
Heavy Fog Visibility 1/4 mile or less	59	2.2	2.0	2.0	0.7	0.8	0.6	0.7	1.9	1.6	1.8	1.2	1.9	17.6
Temperature °F														
-Maximum														
90° and above	33	0.0	0.0	0.0	0.1	1.3	5.4	8.6	6.1	1.8	0.1	0.0	0.0	23.3
32° and below	33	17.8	12.2	3.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	2.3	12.8	48.7
-Minimum														
32° and below	33	29.3	25.5	20.7	7.3	0.6	0.0	0.0	0.0	0.2	6.0	18.3	27.3	135.2
0° and below	33	7.8	4.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.7	16.0
AVG. STATION PRESS. (mb)	21	997.6	997.5	994.0	993.0	992.7	992.8	994.2	995.3	995.9	996.3	995.7	997.3	995.2
RELATIVE HUMIDITY (%)														
Hour 00	33	73	74	74	72	75	77	82	85	83	76	76	77	77
Hour 06 (Local Time)	33	74	76	78	79	80	81	85	89	88	81	80	79	81
Hour 12 (Local Time)	33	66	64	60	54	53	53	57	58	57	54	63	69	59
Hour 18 (Local Time)	33	69	67	62	54	53	53	59	62	66	63	70	74	63
PRECIPITATION (inches):														
Water Equivalent														
-Normal		1.64	1.30	2.77	3.97	4.21	4.32	4.88	3.76	3.74	2.70	1.96	1.92	37.17
-Maximum Monthly	64	4.39	2.80	7.43	11.30	11.43	13.21	11.76	15.23	14.18	9.41	6.77	4.99	15.23
-Year		1974	1985	1973	1973	1974	1993	1992	1987	1970	1941	1992	1982	AUG 1987
-Minimum Monthly	64	0.31	0.17	0.31	0.68	0.31	1.02	0.41	0.35	0.02	0.01	0.29	0.23	0.01
-Year		1961	1933	1958	1946	1992	1963	1991	1971	1979	1964	1933	1929	OCT 1964
-Maximum in 24 hrs	64	2.07	1.90	2.42	5.81	3.68	5.02	5.41	5.13	6.29	4.89	2.73	3.38	6.29
-Year		1960	1948	1985	1973	1970	1967	1963	1987	1961	1954	1961	1942	SEP 1961
Snow, Ice pellets, hail														
-Maximum Monthly	62	26.7	19.3	19.8	13.0	0.3	T	0.0	0.0	0.1	6.6	15.6	21.7	26.7
-Year		1979	1975	1972	1982	1935	1992			1942	1967	1974	1978	JAN 1979
-Maximum in 24 hrs	60	16.4	10.1	11.0	8.2	0.3	T	0.0	0.0	0.1	6.5	8.5	11.4	16.4
-Year		1971	1975	1972	1970	1935	1992			1942	1967	1975	1987	JAN 1971
WIND:														
Mean Speed (mph)	50	10.9	10.8	12.0	12.0	10.2	9.1	7.6	7.2	8.1	9.2	10.8	10.6	9.9
Prevailing Direction through 1963		WNW	WNW	WNW	NW	E	S	E	E	S	S	WNW	WNW	WNW
Fastest Mile														
-Direction (!!)	60	SW	NW	SW	SW	SW	SW	W	N	NW	SW	W	SW	SW
-Speed (MPH)	60	56	58	66	73	68	77	65	63	66	56	60	61	77
-Year		1946	1948	1954	1947	1955	1947	1953	1987	1945	1949	1952	1947	JUN 1947
Peak Gust														
-Direction (!!)	10	W	NW	SW	SW	NW	W	NW	N	SW	SW	W	NW	N
-Speed (mph)	10	59	54	69	69	60	59	52	81	49	61	52	56	81
-Date		1990	1990	1991	1984	1988	1990	1984	1987	1988	1984	1988	1985	AUG 1987

(!!) See Reference Notes on Page 6B.

PRECIPITATION (inches)

MOLINE, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1964	1.59	0.73	4.02	6.37	2.68	3.89	5.31	2.41	3.99	0.01	3.40	1.27	35.67
1965	4.08	0.97	2.52	7.92	4.04	2.07	4.78	9.31	8.27	0.88	1.93	2.82	49.59
1966	2.01	0.89	0.85	3.96	6.39	4.25	7.74	0.77	2.80	4.38	1.12	2.52	37.68
1967	2.00	1.11	1.68	4.91	1.70	8.15	4.15	3.62	4.99	6.23	2.26	1.56	42.36
1968	0.80	0.32	1.96	3.57	2.59	3.70	3.91	2.16	5.70	1.09	3.29	2.76	31.85
1969	3.28	0.21	2.25	3.11	3.40	6.97	11.39	2.00	2.50	4.63	0.53	1.52	41.79
1970	0.54	0.57	2.62	4.66	11.07	3.25	6.27	3.61	14.18	1.75	1.25	1.95	51.72
1971	1.79	1.57	1.99	1.86	3.14	2.36	11.22	0.35	4.54	2.64	2.21	4.77	38.44
1972	1.19	1.24	3.73	5.19	4.24	8.66	3.79	8.20	3.29	2.39	2.75	1.98	46.65
1973	2.53	1.94	7.43	11.30	6.96	6.58	2.63	2.30	6.74	3.06	1.15	3.74	56.36
1974	4.39	1.57	2.94	5.08	11.43	8.83	1.73	3.37	1.08	1.99	2.59	1.83	46.83
1975	1.50	1.75	3.30	2.88	3.23	3.50	2.71	3.23	1.99	0.90	2.98	0.98	28.95
1976	0.88	1.11	3.67	4.21	4.13	2.02	3.34	0.60	1.89	2.13	0.65	0.34	24.97
1977	0.87	0.62	4.61	1.57	2.66	5.18	6.04	6.98	4.80	4.09	2.78	1.76	41.96
1978	0.59	0.67	0.78	3.02	4.65	3.50	3.24	2.47	3.91	1.95	3.32	3.17	31.27
1979	2.72	1.02	2.77	4.01	2.86	2.85	4.40	6.94	0.02	2.51	2.13	2.27	34.50
1980	1.31	1.55	1.74	2.34	4.01	4.97	3.46	9.09	2.94	1.63	0.70	2.75	36.49
1981	0.32	2.45	0.69	4.48	1.48	5.51	3.07	6.90	4.20	4.42	2.42	0.72	36.66
1982	2.08	0.45	3.85	3.33	5.03	3.61	8.83	2.89	1.94	3.38	3.64	4.99	44.02
1983	0.55	1.50	2.88	4.88	2.06	5.21	2.79	0.96	5.30	2.36	5.78	2.55	36.82
1984	0.84	0.79	3.45	4.31	4.97	3.75	4.63	1.31	2.32	6.60	2.91	3.51	39.39
1985	1.04	2.80	4.71	2.14	3.46	2.26	3.33	2.76	1.71	8.54	6.35	2.21	41.31
1986	0.38	2.53	1.35	3.15	5.54	5.10	6.34	3.24	5.63	4.23	1.03	1.95	40.47
1987	0.91	0.89	2.57	1.49	3.35	1.54	1.91	15.23	1.11	0.79	3.33	4.46	37.58
1988	1.74	1.08	2.36	1.36	2.32	1.16	1.79	4.89	1.97	2.37	3.14	1.57	25.75
1989	1.21	1.21	1.85	3.62	3.42	3.31	3.10	6.17	5.42	1.18	0.71	0.73	31.93
1990	1.66	1.99	6.68	3.50	7.68	9.59	3.56	6.42	1.04	2.35	2.87	3.07	50.41
1991	1.19	0.43	6.31	3.69	3.87	1.32	0.41	2.06	2.52	5.80	5.03	1.86	34.49
1992	1.18	1.91	1.07	2.88	0.31	2.11	11.76	1.70	4.80	1.49	6.77	3.96	39.94
1993	2.01	0.92	4.87	5.48	3.61	13.21	5.82	7.76	4.11	0.37	1.50	1.13	50.79
Record Mean	1.53	1.30	2.73	3.64	3.94	4.42	4.25	3.85	3.63	2.76	2.34	1.88	36.26

See Reference Notes on Page 6B.

AVERAGE TEMPERATURE (deg. F)

MOLINE, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1964	28.4	27.0	34.4	51.5	66.3	72.3	76.6	70.8	65.6	50.7	44.2	24.8	51.1
1965	21.4	25.7	26.9	49.2	65.9	69.6	74.9	71.1	63.5	53.6	40.7	34.5	49.8
1966	14.3	24.8	39.2	47.0	56.3	70.5	77.9	70.6	62.9	52.5	41.7	28.1	48.8
1967	26.0	18.7	39.0	51.6	56.4	70.9	71.4	67.7	62.1	52.1	36.1	28.5	48.4
1968	21.0	22.7	41.9	51.3	57.2	72.1	73.1	73.5	63.1	53.2	37.3	24.5	49.3
1969	17.9	27.9	32.2	51.6	61.7	67.1	75.0	73.7	64.9	51.7	37.9	24.3	48.8
1970	13.1	24.7	33.6	51.8	64.9	70.7	75.7	72.9	65.2	53.9	39.2	28.9	49.5
1971	14.8	25.9	34.7	50.9	58.0	76.6	70.7	71.9	68.7	59.9	40.0	31.6	50.3
1972	18.6	20.7	36.0	48.0	63.0	69.4	74.6	74.0	66.7	50.2	37.3	22.3	48.4
1973	27.1	28.7	45.4	49.7	57.6	72.3	74.9	75.1	65.7	57.3	40.4	23.7	51.5
1974	21.6	26.8	38.5	53.3	58.8	67.5	77.3	70.3	60.4	53.7	40.1	28.6	49.8
1975	24.9	25.0	30.6	45.1	63.8	72.3	75.0	75.1	60.9	56.2	45.0	30.3	50.4
1976	19.1	35.2	41.2	52.9	57.5	70.5	75.8	71.8	63.0	46.8	30.1	19.6	48.6
1977	8.2	27.1	43.6	56.6	68.9	70.0	77.5	71.0	65.5	51.2	38.7	21.7	50.0
1978	12.4	14.1	33.0	50.8	60.2	71.0	74.0	73.2	69.2	51.5	39.2	22.7	47.6
1979	6.3	13.2	36.3	47.4	61.9	71.2	73.5	72.0	64.3	52.1	37.0	31.7	47.2
1980	23.4	19.2	33.5	49.1	62.7	69.2	77.6	75.8	65.7	48.6	39.7	26.6	49.3
1981	23.4	27.1	39.4	54.3	57.5	71.0	73.3	71.2	63.5	49.9	41.1	25.3	49.7
1982	10.6	21.4	34.6	44.7	66.1	66.2	75.4	71.3	64.2	54.7	39.2	35.3	48.7
1983	26.9	32.0	38.9	45.5	57.8	72.9	79.4	79.6	65.6	53.1	42.9	14.0	50.7
1984	19.6	34.5	31.2	49.1	58.2	73.6	73.1	75.2	62.9	55.1	39.3	31.1	50.2
1985	14.3	21.8	42.5	57.1	64.9	69.4	74.2	69.7	66.1	53.6	35.2	14.9	48.6
1986	25.1	22.9	42.5	54.6	63.0	71.7	77.6	68.3	67.3	53.4	34.8	30.0	50.9
1987	25.2	34.4	42.2	52.6	66.8	74.6	79.4	72.9	64.4	47.4	44.0	31.0	52.9
1988	20.2	21.7	38.7	50.6	64.1	73.1	78.2	77.8	67.0	47.3	40.3	29.0	50.7
1989	32.7	17.4	37.0	49.9	58.8	69.2	76.2	72.2	61.9	54.6	38.6	15.6	48.7
1990	32.7	31.3	42.8	50.0	57.3	71.3	74.2	73.7	66.9	51.7	44.2	24.6	51.7
1991	18.4	31.7	41.8	54.2	67.3	74.6	75.3	73.9	64.8	53.3	33.9	31.0	51.7
1992	29.1	34.3	41.3	49.2	61.0	68.6	70.5	67.4	62.5	52.2	37.5	27.4	50.1
1993	24.8	23.5	34.7	48.5	63.0	70.3	75.6	74.9	61.0	51.0	37.2	29.4	49.5
Record Mean	21.7	26.1	36.7	50.3	61.3	71.2	75.3	73.1	65.0	53.5	39.0	26.6	50.0
Max	30.2	34.8	46.0	61.2	72.6	82.3	86.2	84.1	76.5	65.0	48.0	34.5	60.1
Min	13.1	17.5	27.4	39.4	50.1	60.1	64.3	62.1	53.4	42.1	30.0	18.6	39.8

See Reference Notes on Page 6B.

HEATING DEGREE DAYS Base 65 deg. F MOLINE, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1964-65	3	24	100	437	624	1241	1344	1096	1174	471	86	3	6603
1965-66	0	21	115	363	722	939	1568	1119	794	533	287	31	6492
1966-67	0	6	116	386	695	1137	1202	1289	802	404	305	10	6352
1967-68	21	33	136	424	860	1127	1354	1221	711	409	248	18	6562
1968-69	8	15	96	404	826	1247	1458	1032	1010	398	172	57	6723
1969-70	0	0	80	445	805	1253	1607	1120	967	419	118	21	6835
1970-71	0	2	92	350	764	1111	1556	1088	931	425	242	0	6561
1971-72	17	3	94	195	740	1026	1434	1280	893	504	155	25	6366
1972-73	8	7	80	459	824	1319	1170	1013	598	452	223	1	6154
1973-74	0	0	78	258	733	1274	1338	1061	812	360	235	32	6181
1974-75	0	8	180	349	739	1122	1235	1114	1058	593	117	14	6529
1975-76	9	0	162	297	594	1072	1413	855	731	385	235	2	5755
1976-77	0	5	123	569	1038	1403	1755	1059	656	286	54	15	6963
1977-78	0	5	50	420	780	1337	1625	1417	986	423	229	13	7285
1978-79	1	4	59	415	767	1305	1820	1445	884	521	172	12	7405
1979-80	5	22	95	415	831	1027	1280	1324	966	481	129	27	6602
1980-81	0	1	77	503	755	1180	1281	1055	783	322	253	3	6213
1981-82	12	9	91	459	710	1226	1682	1214	936	604	62	35	7040
1982-83	0	14	110	333	765	916	1175	917	802	578	228	17	5855
1983-84	1	0	110	377	654	1578	1406	880	1039	482	225	2	6754
1984-85	3	4	171	303	761	1042	1568	1203	692	293	66	25	6131
1985-86	0	4	133	347	888	1546	1231	1174	705	338	104	9	6479
1986-87	0	30	55	358	898	1078	1227	850	701	385	101	4	5687
1987-88	0	23	84	540	627	1046	1384	1250	807	427	90	15	6293
1988-89	1	9	45	544	736	1109	998	1326	863	461	240	28	6360
1989-90	0	4	138	334	785	1527	995	937	691	483	241	18	6153
1990-91	2	0	97	422	622	1248	1437	928	719	339	107	0	5921
1991-92	0	0	147	370	927	1049	1107	884	726	473	181	27	5891
1992-93	3	33	147	405	819	1158	1241	1156	936	488	116	53	6555
1993-94	0	1	153	433	827	1096							

See Reference Notes on Page 6B.

COOLING DEGREE DAYS Base 65 deg. F MOLINE, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL
1969	0	0	0	1	77	130	320	276	86	41	0	0	931
1970	0	0	0	32	119	198	341	256	105	15	0	0	1066
1971	0	0	0	9	32	355	203	225	212	44	0	0	1080
1972	0	0	0	3	102	165	312	294	138	6	0	0	1020
1973	0	0	0	2	2	226	312	323	103	27	0	0	995
1974	0	0	0	17	50	113	389	180	45	3	0	0	797
1975	0	0	0	1	85	241	325	319	44	29	0	0	1044
1976	0	0	0	26	12	175	341	221	72	13	0	0	860
1977	0	0	0	44	182	173	397	199	73	0	0	0	1068
1978	0	0	1	0	87	202	288	267	195	5	0	0	1045
1979	0	0	0	0	83	206	272	245	79	22	0	0	907
1980	0	0	0	11	65	158	395	343	107	1	0	0	1080
1981	0	0	0	8	27	191	275	209	50	0	0	0	760
1982	0	0	0	0	102	78	327	215	95	20	0	0	837
1983	0	0	0	1	12	260	453	459	138	14	0	0	1337
1984	0	0	0	9	21	268	261	327	116	3	0	0	1005
1985	0	0	0	64	71	165	292	154	172	0	0	0	918
1986	0	0	12	31	48	216	396	143	133	4	0	0	983
1987	0	0	0	20	162	298	453	277	71	0	3	0	1284
1988	0	0	0	0	69	263	416	410	112	3	0	0	1273
1989	0	0	4	13	53	159	356	236	52	20	0	0	893
1990	0	0	10	40	8	216	294	280	159	18	3	0	1028
1991	0	0	6	21	183	297	324	284	149	16	0	0	1280
1992	0	0	0	6	61	143	181	115	77	13	0	0	596
1993	0	0	0	0	60	217	335	317	39	8	0	0	976

See Reference Notes on Page 6B.

SNOWFALL (inches)

MOLINE, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1964-65	0.0	0.0	0.0	0.0	2.1	11.7	10.2	7.4	16.2	0.0	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.3	5.7	6.0	0.8	0.7	0.1	T	0.0	13.6
1966-67	0.0	0.0	0.0	0.0	T	7.2	14.4	13.2	2.2	1.1	0.0	0.0	38.1
1967-68	0.0	0.0	0.0	6.6	0.3	3.2	8.6	2.8	1.1	T	0.0	0.0	22.6
1968-69	0.0	0.0	0.0	T	5.9	5.4	6.2	0.9	5.6	0.0	T	0.0	24.0
1969-70	0.0	0.0	0.0	0.0	1.5	15.4	7.2	6.1	12.7	8.3	0.0	0.0	51.2
1970-71	0.0	0.0	0.0	0.0	0.2	2.2	17.7	2.6	7.8	T	0.0	0.0	30.5
1971-72	0.0	0.0	0.0	0.0	5.9	0.3	11.8	13.7	19.8	2.6	0.0	0.0	54.1
1972-73	0.0	0.0	0.0	2.0	6.7	6.6	0.4	8.6	0.5	0.9	0.0	0.0	25.7
1973-74	0.0	0.0	0.0	0.0	T	11.4	12.7	7.4	3.0	0.6	0.0	0.0	35.1
1974-75	0.0	0.0	0.0	0.0	15.6	8.8	7.6	19.3	12.2	6.2	0.0	0.0	69.7
1975-76	0.0	0.0	0.0	0.0	9.9	2.5	8.6	0.1	0.6	0.0	T	0.0	21.7
1976-77	0.0	0.0	0.0	0.0	7.7	4.1	12.3	2.5	10.8	1.0	0.0	0.0	38.4
1977-78	0.0	0.0	0.0	0.0	4.8	20.8	6.1	6.8	6.5	T	0.0	0.0	45.0
1978-79	0.0	0.0	0.0	0.0	7.1	21.7	26.7	4.5	3.4	0.6	0.0	0.0	64.0
1979-80	0.0	0.0	0.0	T	1.9	0.8	4.2	13.1	7.5	9.5	0.0	0.0	37.0
1980-81	0.0	0.0	0.0	2.4	1.1	4.5	5.3	5.6	T	0.0	0.0	0.0	18.9
1981-82	0.0	0.0	0.0	T	3.3	4.3	13.6	4.5	6.6	13.0	0.0	0.0	45.3
1982-83	0.0	0.0	0.0	0.0	T	0.5	4.7	6.2	12.7	0.7	0.0	0.0	24.8
1983-84	0.0	0.0	0.0	T	0.9	18.9	9.9	1.9	13.6	0.1	0.0	0.0	45.3
1984-85	0.0	0.0	0.0	0.0	T	9.3	13.4	7.5	0.2	T	0.0	0.0	30.4
1985-86	0.0	0.0	0.0	0.0	3.1	11.5	3.7	7.8	0.2	0.4	0.0	0.0	26.7
1986-87	0.0	0.0	0.0	0.0	2.2	0.2	9.1	T	0.1	0.0	0.0	0.0	11.6
1987-88	0.0	0.0	0.0	T	0.6	15.9	2.7	16.4	0.5	0.0	0.0	0.0	36.1
1988-89	0.0	0.0	0.0	T	1.0	2.5	T	13.8	0.4	T	T	0.0	17.7
1989-90	0.0	0.0	0.0	T	0.1	8.2	6.3	10.3	T	T	0.0	T	24.9
1990-91	0.0	0.0	0.0	0.0	T	7.5	11.1	1.5	5.4	0.0	0.0	0.0	25.5
1991-92	0.0	0.0	T	T	1.0	6.7	5.2	1.4	3.6	T	0.0	T	17.9
1992-93	0.0	0.0	0.0	T	0.6	7.2	7.0	6.4	3.0	1.0	T	0.0	25.2
1993-94	0.0	0.0	0.0	T	3.6	5.2							
Record Mean	0.0	0.0	T	0.2	2.2	7.1	7.8	6.0	5.9	1.0	T	T	30.2

See Reference Notes on Page 6B.

REFERENCE NOTES

MOLINE, ILLINOIS

GENERAL
T - TRACE AMOUNT.
BLANK ENTRIES DENOTE MISSING/UNREPORTED DATA.
# INDICATES A STATION OR INSTRUMENT RELOCATION.
SEE STATION LOCATION TABLE ON PAGE B.

SPECIFIC
PAGE 2
PM - INCLUDES LAST DAY OF PREVIOUS MONTH
ASOS - AUTOMATED SURFACE OBSERVING SYSTEM IN OPERATION DURING THESE MONTHS.

PAGE 3
(a) - LENGTH OF RECORD IN YEARS, ALTHOUGH INDIVIDUAL MONTHS MAY BE MISSING.
0.* OR * - THE VALUE IS BETWEEN 0.0 AND 0.05
NORMALS - BASED ON THE 1951-1980 RECORD PERIOD.
EXTREMES - DATES ARE THE MOST RECENT OCCURRENCE
WIND DIR.- NUMERALS SHOW TENS OF DEGRESS CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM.
RESULTANT DIRECTIONS ARE GIVEN TO WHOLE DEGREES.
BOLD VALUES INDICATE EXTREME VALUES WHICH OCCURRED AFTER THE ASOS SYSTEM WAS COMMISSIONED.

PAGE 4B
RECORD = PERIOD OF RECORD
RECORD MEAN PRECIPITATION IS THE MEAN OF ALL DAILY PRECIPITATION AMOUNTS DURING THE PERIOD OF RECORD.
RECORD MAX(MIN) TEMPERATURE IS THE MEAN OF ALL DAILY MAX(MIN) TEMPERATURES DURING THE PERIOD OF RECORD.
RECORD MEAN TEMPERATURE IS THE SUM OF THE RECORD MAX AND RECORD MIN DIVIDED BY 2.
AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAX AND MIN TEMPERATURE DIVIDED BY 2.

EXCEPTIONS

PAGES 4A, 4B, 6A
RECORD MEANS ARE THROUGH THE CURRENT YEAR,
BEGINNING IN 1930 FOR TEMPERATURE
1927 FOR PRECIPITATION
1933 FOR SNOWFALL

MOLINE, ILLINOIS

The locality is in the heart of the Corn Belt. Agricultural crops include many important staple products in addition to corn. Cattle, hogs, horses, and poultry produced in Iowa and Illinois rank high in the nation. Close to the Mississippi River there is large scale truck gardening and considerable dairying. Field production of grains and livestock attains greater development farther away from the large streams, where the countryside is rolling prairie. Damaging droughts are not common. This, together with the variety of agricultural products, has led to designating the section as the Bread Basket of America.

The climate is favorable for many industries as evidenced by the large number and variety of manufacturing and other enterprises which have located and developed in the community. Among these are some of the largest producers of agricultural machinery in the world.

This area has a temperate continental climate, with a wide temperature range throughout the year. There are some intensely hot, unusually humid, periods in summer and severely cold periods in winter. Maxima of 90 degrees or more have occurred in summer as frequently as 55 days and zero or lower readings have occurred during every winter.

Freezing temperatures have occurred as late in spring as late May and as early in autumn as late September. Precipitation is usually well distributed throughout the year with the greatest amounts falling during the 177-day average crop growing season. Substantial weather changes frequently occur at three or four day intervals, as a direct result of proximity to some of the most important storm tracks.

STATION LOCATION

MOLINE, ILLINOIS

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE SEA LEVEL: GROUND TEMPERATURE SITE	ELEVATION ABOVE GROUND: WIND INSTRUMENTS	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET RAIN GAGE	WEIGHING RAIN GAGE	8 INCH RAIN GAGE	HYGROTHERMOMETER	AUTOMATIC OBSERVING EQUIPMENT *	REMARKS
NE Corner, Moline AP 4.5 miles S of Moline Post Office	10/1/26	12/27/39	NA	41°27'	90°31'	589	53	3	3				3			
Administration Building Quad City Airport	12/27/39	4/3/61	1200 ft. W	41°27'	90°31'	589 h582	62 f25	5 b36 c5 d36	5 a36 c5 d36	Unk		4 e5	15	g4		a - Moved to roof site 12/1/54. b - Moved to roof site 5/31/55. c - Moved to field site 6/7/56. d - Moved to roof site 4/16/58. e - Effective 4/16/58. f - Moved to field site 11/13/58. g - Telepsychrometer (5') 6/7/56-3/1/60. Hygro. comm. 3/1/60. h - Effective 3/1/60.
Terminal Building Quad City Airport	4/4/61	Present	200 ft. SE	41°27'	90°31'	582	i25 n30	17 n4	17 n4	27 n7	NA k16 n4	j5 j16 n4	15 n4	i4 m7 n4	NA	i - Not moved 4/4/61. j - Effective 7/22/63. k - Added 6/1/64. m - Type change 6/27/85. n - Moved to field site 1/5/91.

* Type
M = AMOS
T = AUTOB
S = ASOS
W = AWOS

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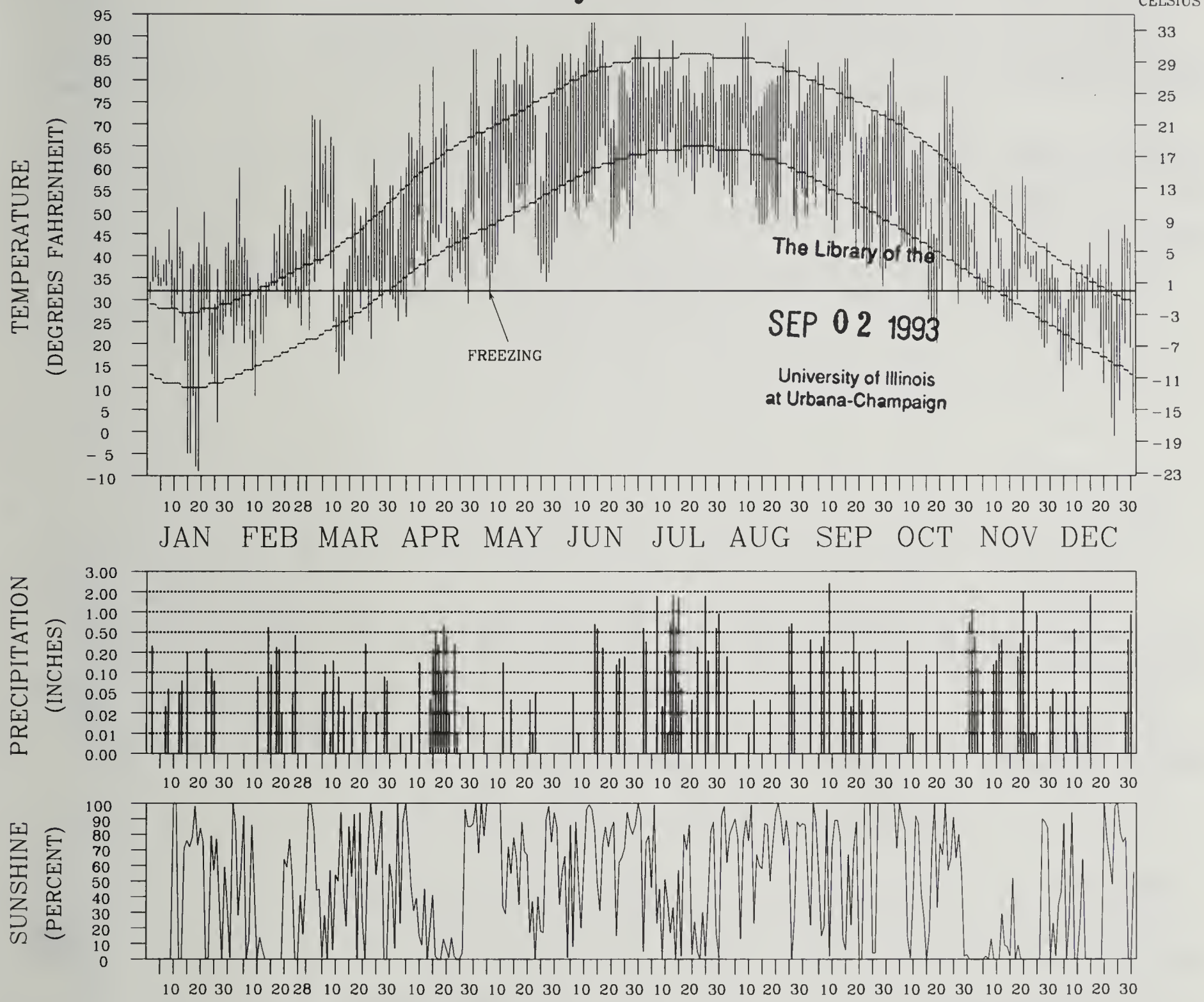
1992 LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

MOLINE,
ILLINOIS

Daily Data



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TEMPERATURE DEPICTS NORMAL MAXIMUM, NORMAL MINIMUM AND ACTUAL DAILY HIGH AND LOW VALUES (FAHRENHEIT)
PRECIPITATION IS MEASURED IN INCHES, SCALE IS NON-LINEAR
SUNSHINE IS PERCENT OF THE POSSIBLE SUNSHINE

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Kenneth D Hadeen
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

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NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

METEOROLOGICAL DATA FOR 1992

MOLINE, ILLINOIS

LATITUDE: 41°27' N LONGITUDE: 90°31' W ELEVATION: FT. GRND 582 BARO 605 TIME ZONE: CENTRAL WBAN: 14923

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:													
Averages													
-Daily Maximum	37.0	41.7	51.4	60.0	75.2	82.7	79.6	79.2	73.9	64.3	42.9	35.2	60.3
-Daily Minimum	21.2	26.9	31.2	38.3	46.8	54.5	61.3	55.6	51.1	40.0	32.1	19.5	39.9
-Monthly	29.1	34.3	41.3	49.2	61.0	68.6	70.5	67.4	62.5	52.2	37.5	27.4	50.1
-Monthly Dewpt.	23.8	28.0	30.6	37.8	43.6	53.9	63.8	58.9	54.8	40.8	32.2	22.0	40.9
Extremes													
-Highest	51	60	72	87	90	93	90	93	85	85	58	47	93
-Date	11	3	1	30	16	14	1	9	16	3	20	28	AUG 9
-Lowest	-9	8	13	25	30	43	51	46	33	20	19	-1	-9
-Date	19	9	11	2	6	21	6	28	29	19	28	24	JAN 19
DEGREE DAYS BASE 65 °F:													
Heating	1107	884	726	473	181	27	3	33	147	405	819	1158	5963
Cooling	0	0	0	6	61	143	181	115	77	13	0	0	596
% OF POSSIBLE SUNSHINE	38	34	50	35	68	66	41	72	58	59	13	38	50
AVG. SKY COVER (tenths)													
Sunrise - Sunset	7.1	7.7	6.5	7.7	4.3	5.5	7.5	3.8	5.3	5.5	8.9	7.2	6.4
Midnight - Midnight	6.8	7.1	6.3	7.2	3.7	4.9	7.1	3.3	4.6	5.0	8.6	6.5	5.9
NUMBER OF DAYS:													
Sunrise to Sunset													
-Clear	7	4	9	5	15	9	4	15	11	8	3	7	97
-Partly Cloudy	7	5	5	3	7	11	8	12	6	12	0	4	80
-Cloudy	17	20	17	22	9	10	19	4	13	11	27	20	189
Precipitation .01 inches or more	9	8	12	14	6	8	17	7	12	7	17	9	126
Snow, Ice pellets, hail 1.0 inches or more	2	1	1	0	0	0	0	0	0	0	0	1	5
Thunderstorms	0	1	4	7	3	4	12	2	8	2	1	0	44
Heavy Fog, visibility 1/4 mile or less	3	1	2	0	0	0	1	2	2	0	1	5	17
Temperature °F													
-Maximum													
90° and above	0	0	0	0	1	4	1	3	0	0	0	0	9
32° and below	7	3	3	0	0	0	0	0	0	0	0	11	24
-Minimum													
32° and below	23	23	17	7	1	0	0	0	0	6	17	29	123
0° and below	4	0	0	0	0	0	0	0	0	0	0	1	5
AVG. STATION PRESS. (mb)	995.6	995.8	993.9	993.7	997.3	991.2	992.6	997.6	996.4	995.9	994.9	998.3	995.3
RELATIVE HUMIDITY (%)													
Hour 00	83	82	77	74	70	80	93	92	89	78	85	81	82
Hour 06 (Local Time)	86	85	79	82	76	83	91	94	93	86	87	82	85
Hour 12 (Local Time)	76	72	57	60	43	45	70	60	61	50	77	71	62
Hour 18 (Local Time)	79	77	60	55	39	45	72	65	77	68	83	80	67
PRECIPITATION (inches):													
Water Equivalent													
-Total	1.18	1.91	1.07	2.88	0.31	2.11	11.76	1.70	4.80	1.49	6.77	3.96	39.94
-Greatest (24 hrs)	0.30	0.76	0.33	0.99	0.15	1.29	1.98	1.35	2.43	0.74	2.01	1.90	2.43
-Date	2	14-15	21	19-20	11	14-15	13-14	25-26	9	31	20-21	14-15	SEP 9
Snow, Ice pellets, hail													
-Total	5.2	1.4	3.6	T	0.0	T	0.0	0.0	0.0	T	0.6	7.2	18.0
-Greatest (24 hrs)	2.5	1.0	2.7	T	0.0	T	0.0	0.0	0.0	T	0.6	6.1	6.1
-Date	24-25	10	11-12	22		17				19	5	9-10	DEC 9-10
WIND:													
Resultant													
-Direction (!!!)	274	310	340	235	300	034	257	244	217	246	300	257	267
-Speed (mph)	3.7	2.1	1.5	0.8	0.5	0.2	1.3	1.5	2.8	1.3	1.6	3.8	1.4
Average Speed (mph)	8.5	7.7	8.0	7.5	6.9	5.7	6.1	5.9	6.4	7.0	8.8	8.9	7.3
Fastest Obs. 1 Min.													
-Direction (!!!)	29	31	01	26	30	24	29	22	32	32	30	31	26
-Speed (mph)	30	26	26	46	23	26	33	21	20	21	28	26	46
-Date	23	28	9	10	2	17	2	25	18	12	12	2	APR 10
Peak Gust													
-Direction (!!!)	NW	NW	NW	W	NW	SW	W	SW	W	NW	NW	NW	W
-Speed (mph)	43	37	36	58	45	44	41	37	32	33	40	40	58
-Date	23	28	26	10	4	17	2	25	2	16	12	25	APR 10

(!!!) See Reference Notes on Page 6B

NORMALS, MEANS, AND EXTREMES

MOLINE, ILLINOIS

LATITUDE: 41°27'N LONGITUDE: 90°31' W ELEVATION: FT. GRND 582 BARO 605 TIME ZONE: CENTRAL WBAN: 14923

	(a)	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:														
Normals														
-Daily Maximum		28.0	33.7	44.8	61.1	72.5	82.1	85.4	83.6	76.2	64.8	48.0	34.3	59.5
-Daily Minimum		11.0	16.4	26.5	39.6	50.1	59.9	64.3	62.1	53.2	42.1	30.0	18.4	39.5
-Monthly		19.5	25.1	35.7	50.4	61.3	71.0	74.9	72.9	64.7	53.5	39.0	26.4	49.5
Extremes														
-Record Highest	60	69	71	88	93	104	104	105	106	100	92	80	69	106
-Year		1989	1976	1986	1986	1934	1988	1940	1936	1939	1963	1933	1970	AUG 1936
-Record Lowest	60	-27	-25	-19	7	26	39	46	40	24	16	-9	-24	-27
-Year		1979	1979	1960	1982	1966	1972	1971	1986	1942	1988	1976	1989	JAN 1979
NORMAL DEGREE DAYS:														
Heating (base 65°F)		1411	1117	908	438	177	20	0	5	75	370	780	1197	6498
Cooling (base 65°F)		0	0	0	0	62	200	307	250	66	14	0	0	899
% OF POSSIBLE SUNSHINE	49	48	49	50	53	57	63	68	66	62	58	41	41	55
MEAN SKY COVER (tenths)														
Sunrise - Sunset	50	6.5	6.5	6.8	6.5	6.2	5.9	5.3	5.3	5.2	5.3	6.8	6.8	6.1
MEAN NUMBER OF DAYS:														
Sunrise to Sunset														
-Clear	59	7.9	7.2	6.5	6.6	7.6	7.4	10.1	10.4	11.7	11.6	7.3	7.1	101.2
-Partly Cloudy	59	7.0	6.4	7.8	8.6	9.2	10.6	11.8	10.9	7.9	7.7	6.6	6.2	100.8
-Cloudy	59	16.1	14.7	16.7	14.8	14.2	12.0	9.1	9.7	10.4	11.7	16.1	17.7	163.2
Precipitation .01 inches or more	60	9.0	7.9	11.0	10.9	11.9	10.0	9.6	8.9	8.7	7.8	8.6	9.3	113.6
Snow, Ice pellets, hail 1.0 inches or more	60	2.5	2.0	1.8	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.7	2.3	9.6
Thunderstorms	59	0.3	0.5	2.2	4.5	6.8	8.2	8.3	7.0	4.5	2.5	1.2	0.7	46.9
Heavy Fog Visibility 1/4 mile or less	58	2.2	2.0	1.9	0.8	0.8	0.6	0.7	2.0	1.6	1.9	1.2	1.9	17.5
Temperature °F														
-Maximum														
90° and above	32	0.0	0.0	0.0	0.1	1.3	5.4	8.8	6.0	1.8	0.1	0.0	0.0	23.5
32° and below	32	17.9	12.2	3.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	2.2	12.8	48.6
-Minimum														
32° and below	32	29.3	25.4	20.6	7.2	0.6	0.0	0.0	0.0	0.3	5.9	18.3	27.4	135.0
0° and below	32	8.0	4.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.7	16.3
AVG. STATION PRESS. (mb)	20	997.4	997.4	993.9	993.0	992.7	992.8	994.3	995.3	996.0	996.4	995.7	997.4	995.2
RELATIVE HUMIDITY (%)														
Hour 00 (Local Time)	32	73	74	74	72	75	77	82	85	83	76	76	77	77
Hour 06 (Local Time)	32	74	76	78	78	80	81	85	89	88	81	80	79	81
Hour 12 (Local Time)	32	65	64	60	54	53	53	57	58	57	54	63	69	59
Hour 18 (Local Time)	32	69	67	62	54	52	53	59	62	66	63	70	74	63
PRECIPITATION (inches):														
Water Equivalent														
-Normal		1.64	1.30	2.77	3.97	4.21	4.32	4.88	3.76	3.74	2.70	1.96	1.92	37.17
-Maximum Monthly	63	4.39	2.80	7.43	11.30	11.43	9.59	11.76	15.23	14.18	9.41	6.77	4.99	15.23
-Year		1974	1985	1973	1973	1974	1990	1992	1987	1970	1941	1992	1982	AUG 1987
-Minimum Monthly	63	0.31	0.17	0.31	0.68	0.31	1.02	0.41	0.35	0.02	0.01	0.29	0.23	0.01
-Year		1961	1933	1958	1946	1992	1963	1991	1971	1979	1964	1933	1929	OCT 1964
-Maximum in 24 hrs	63	2.07	1.90	2.42	5.81	3.68	5.02	5.41	5.13	6.29	4.89	2.73	3.38	6.29
-Year		1960	1948	1985	1973	1970	1967	1963	1987	1961	1954	1961	1942	SEP 1961
Snow, Ice pellets, hail														
-Maximum Monthly	61	26.7	19.3	19.8	13.0	0.3	T	0.0	0.0	0.1	6.6	15.6	21.7	26.7
-Year		1979	1975	1972	1982	1935	1992			1942	1967	1974	1978	JAN 1979
-Maximum in 24 hrs	59	16.4	10.1	11.0	8.2	0.3	T	0.0	0.0	0.1	6.5	8.5	11.4	16.4
-Year		1971	1975	1972	1970	1935	1992			1942	1967	1975	1987	JAN 1971
WIND:														
Mean Speed (mph)	49	10.9	10.8	12.1	12.1	10.3	9.1	7.6	7.2	8.1	9.3	10.8	10.7	9.9
Prevailing Direction through 1963		WNW	WNW	WNW	NW	E	S	E	E	S	S	WNW	WNW	WNW
Fastest Mile														
-Direction (!!!)	60	SW	NW	SW	SW	SW	SW	W	N	NW	SW	W	SW	SW
-Speed (MPH)	60	56	58	66	73	68	77	65	63	66	56	60	61	77
-Year		1946	1948	1954	1947	1955	1947	1953	1987	1945	1949	1952	1947	JUN 1947
Peak Gust														
-Direction (!!!)	9	W	NW	SW	SW	NW	W	NW	N	SW	SW	W	NW	N
-Speed (mph)	9	59	54	69	69	60	59	52	81	49	61	52	56	81
-Date		1990	1990	1991	1984	1988	1990	1984	1987	1988	1984	1988	1985	AUG 1987

(!!!) See Reference Notes on Page 6B.

PRECIPITATION (inches)

MOLINE, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1963	0.91	0.37	3.29	4.24	2.36	1.02	8.78	4.02	2.38	0.63	1.84	0.94	30.78
1964	1.59	0.73	4.02	6.37	2.68	3.89	5.31	2.41	3.99	0.01	3.40	1.27	35.67
1965	4.08	0.97	2.52	7.92	4.04	2.07	4.78	9.31	8.27	0.88	1.93	2.82	49.59
1966	2.01	0.89	0.85	3.96	6.39	4.25	7.74	0.77	2.80	4.38	1.12	2.52	37.68
1967	2.00	1.11	1.68	4.91	1.70	8.15	4.15	3.62	4.99	6.23	2.26	1.56	42.36
1968	0.80	0.32	1.96	3.57	2.59	3.70	3.91	2.16	5.70	1.09	3.29	2.76	31.85
1969	3.28	0.21	2.25	3.11	3.40	6.97	11.39	2.00	2.50	4.63	0.53	1.52	41.79
1970	0.54	0.57	2.62	4.66	11.07	3.25	6.27	3.61	14.18	1.75	1.25	1.95	51.72
1971	1.79	1.57	1.99	1.86	3.14	2.36	11.22	0.35	4.54	2.64	2.21	4.77	38.44
1972	1.19	1.24	3.73	5.19	4.24	8.66	3.79	8.20	3.29	2.39	2.75	1.98	46.65
1973	2.53	1.94	7.43	11.30	6.96	6.58	2.63	2.30	6.74	3.06	1.15	3.74	56.36
1974	4.39	1.57	2.94	5.08	11.43	8.83	1.73	3.37	1.08	1.99	2.59	1.83	46.83
1975	1.50	1.75	3.30	2.88	3.23	3.50	2.71	3.23	1.99	0.90	2.98	0.98	28.95
1976	0.88	1.11	3.67	4.21	4.13	2.02	3.34	0.60	1.89	2.13	0.65	0.34	24.97
1977	0.87	0.62	4.61	1.57	2.66	5.18	6.04	6.98	4.80	4.09	2.78	1.76	41.96
1978	0.59	0.67	0.78	3.02	4.65	3.50	3.24	2.47	3.91	1.95	3.32	3.17	31.27
1979	2.72	1.02	2.77	4.01	2.86	2.85	4.40	6.94	0.02	2.51	2.13	2.27	34.50
1980	1.31	1.55	1.74	2.34	4.01	4.97	3.46	9.09	2.94	1.63	0.70	2.75	36.49
1981	0.32	2.45	0.69	4.48	1.48	5.51	3.07	6.90	4.20	4.42	2.42	0.72	36.66
1982	2.08	0.45	3.85	3.33	5.03	3.61	8.83	2.89	1.94	3.38	3.64	4.99	44.02
1983	0.55	1.50	2.88	4.88	2.06	5.21	2.79	0.96	5.30	2.36	5.78	2.55	36.82
1984	0.84	0.79	3.45	4.31	4.97	3.75	4.63	1.31	2.32	6.60	2.91	3.51	39.39
1985	1.04	2.80	4.71	2.14	3.46	2.26	3.33	2.76	1.71	8.54	6.35	2.21	41.31
1986	0.38	2.53	1.35	3.15	5.54	5.10	6.34	3.24	5.63	4.23	1.03	1.95	40.47
1987	0.91	0.89	2.57	1.49	3.35	1.54	1.91	15.23	1.11	0.79	3.33	4.46	37.58
1988	1.74	1.08	2.36	1.36	2.32	1.16	1.79	4.89	1.97	2.37	3.14	1.57	25.75
1989	1.21	1.21	1.85	3.62	3.42	3.31	3.10	6.17	5.42	1.18	0.71	0.73	31.93
1990	1.66	1.99	6.68	3.50	7.68	9.59	3.56	6.42	1.04	2.35	2.87	3.07	50.41
1991	1.19	0.43	6.31	3.69	3.87	1.32	0.41	2.06	2.52	5.80	5.03	1.86	34.49
1992	1.18	1.91	1.07	2.88	0.31	2.11	11.76	1.70	4.80	1.49	6.77	3.96	39.94
Record Mean	1.53	1.30	2.70	3.61	3.94	4.28	4.22	3.79	3.62	2.80	2.35	1.90	36.04

See Reference Notes on Page 6B.

AVERAGE TEMPERATURE (deg. F)

MOLINE, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1963	9.7	17.9	41.1	52.9	60.0	73.5	74.8	70.8	64.9	64.4	43.1	13.8	48.9
1964	28.4	27.0	34.4	51.5	66.3	72.3	76.6	70.8	65.6	50.7	44.2	24.8	51.1
1965	21.4	25.7	26.9	49.2	65.9	69.6	74.9	71.1	63.5	53.6	40.7	34.5	49.8
1966	14.3	24.8	39.2	47.0	56.3	70.5	77.9	70.6	62.9	52.5	41.7	28.1	48.8
1967	26.0	18.7	39.0	51.6	56.4	70.9	71.4	67.7	62.1	52.1	36.1	28.5	48.4
1968	21.0	22.7	41.9	51.3	57.2	72.1	73.1	73.5	63.1	53.2	37.3	24.5	49.3
1969	17.9	27.9	32.2	51.6	61.7	67.1	75.0	73.7	64.9	51.7	37.9	24.3	48.8
1970	13.1	24.7	33.6	51.8	64.9	70.7	75.7	72.9	65.2	53.9	39.2	28.9	49.5
1971	14.8	25.9	34.7	50.9	58.0	76.6	70.7	71.9	68.7	59.9	40.0	31.6	50.3
1972	18.6	20.7	36.0	48.0	63.0	69.4	74.6	74.0	66.7	50.2	37.3	22.3	48.4
1973	27.1	28.7	45.4	49.7	57.6	72.3	74.9	75.1	65.7	57.3	40.4	23.7	51.5
1974	21.6	26.8	38.5	53.3	58.8	67.5	77.3	70.3	60.4	53.7	40.1	28.6	49.8
1975	24.9	25.0	30.6	45.1	63.8	72.3	75.0	75.1	60.9	56.2	45.0	30.3	50.4
1976	19.1	35.2	41.2	52.9	57.5	70.5	75.8	71.8	63.0	46.8	30.1	19.6	48.6
1977	8.2	27.1	43.6	56.6	68.9	70.0	77.5	71.0	65.5	51.2	38.7	21.7	50.0
1978	12.4	14.1	33.0	50.8	60.2	71.0	74.0	73.2	69.2	51.5	39.2	22.7	47.6
1979	6.3	13.2	36.3	47.4	61.9	71.2	73.5	72.0	64.3	52.1	37.0	31.7	47.2
1980	23.4	19.2	33.5	49.1	62.7	69.2	77.6	75.8	65.7	48.6	39.7	26.6	49.3
1981	23.4	27.1	39.4	54.3	57.5	71.0	73.3	71.2	63.5	49.9	41.1	25.3	49.7
1982	10.6	21.4	34.6	44.7	66.1	66.2	75.4	71.3	64.2	54.7	39.2	35.3	48.7
1983	26.9	32.0	38.9	45.5	57.8	72.9	79.4	79.6	65.6	53.1	42.9	14.0	50.7
1984	19.6	34.5	31.2	49.1	58.2	73.6	73.1	75.2	62.9	55.1	39.3	31.1	50.2
1985	14.3	21.8	42.5	57.1	64.9	69.4	74.2	69.7	66.1	53.6	35.2	14.9	48.6
1986	25.1	22.9	42.5	54.6	63.0	71.7	77.6	68.3	67.3	53.4	34.8	30.0	50.9
1987	25.2	34.4	42.2	52.6	66.8	74.6	79.4	72.9	64.4	47.4	44.0	31.0	52.9
1988	20.2	21.7	38.7	50.6	64.1	73.1	78.2	77.8	67.0	47.3	40.3	29.0	50.7
1989	32.7	17.4	37.0	49.9	58.8	69.2	76.2	72.2	61.9	54.6	38.6	15.6	48.7
1990	32.7	31.3	42.8	50.0	57.3	71.3	74.2	73.7	66.9	51.7	44.2	24.6	51.7
1991	18.4	31.7	41.8	54.2	67.3	74.6	75.3	73.9	64.8	53.3	33.9	31.0	51.7
1992	29.1	34.3	41.3	49.2	61.0	68.6	70.5	67.4	62.5	52.2	37.5	27.4	50.1
Record Mean	21.6	26.2	36.8	50.4	61.3	71.2	75.2	73.1	65.0	53.5	39.0	26.5	50.0
Max	30.2	34.9	46.0	61.2	72.5	82.3	86.2	84.1	76.6	65.0	48.0	34.5	60.1
Min	13.0	17.5	27.5	39.5	50.0	60.1	64.2	62.0	53.4	42.1	30.0	18.5	39.8

See Reference Notes on Page 6B.

HEATING DEGREE DAYS Base 65 deg. F MOLINE, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1963-64	0	16	83	108	653	1585	1129	1097	942	405	71	20	6109
1964-65	3	24	100	437	624	1241	1344	1096	1174	471	86	3	6603
1965-66	0	21	115	363	722	939	1568	1119	794	533	287	31	6492
1966-67	0	6	116	386	695	1137	1202	1289	802	404	305	10	6352
1967-68	21	33	136	424	860	1127	1354	1221	711	409	248	18	6562
1968-69	8	15	96	404	826	1247	1458	1032	1010	398	172	57	6723
1969-70	0	0	80	445	805	1253	1607	1120	967	419	118	21	6835
1970-71	0	2	92	350	764	1111	1556	1088	931	425	242	0	6561
1971-72	17	3	94	195	740	1026	1434	1280	893	504	155	25	6366
1972-73	8	7	80	459	824	1319	1170	1013	598	452	223	1	6154
1973-74	0	0	78	258	733	1274	1338	1061	812	360	235	32	6181
1974-75	0	8	180	349	739	1122	1235	1114	1058	593	117	14	6529
1975-76	9	0	162	297	594	1072	1413	855	731	385	235	2	5755
1976-77	0	5	123	569	1038	1403	1755	1059	656	286	54	15	6963
1977-78	0	5	50	420	780	1337	1625	1417	986	423	229	13	7285
1978-79	1	4	59	415	767	1305	1820	1445	884	521	172	12	7405
1979-80	5	22	95	415	831	1027	1280	1324	966	481	129	27	6602
1980-81	0	1	77	503	755	1180	1281	1055	783	322	253	3	6213
1981-82	12	9	91	459	710	1226	1682	1214	936	604	62	35	7040
1982-83	0	14	110	333	765	916	1175	917	802	578	228	17	5855
1983-84	1	0	110	377	654	1578	1406	880	1039	482	225	2	6754
1984-85	3	4	171	303	761	1042	1568	1203	692	293	66	25	6131
1985-86	0	4	133	347	888	1546	1231	1174	705	338	104	9	6479
1986-87	0	30	55	358	898	1078	1227	850	701	385	101	4	5687
1987-88	0	23	84	540	627	1046	1384	1250	807	427	90	15	6293
1988-89	1	9	45	544	736	1109	998	1326	863	461	240	28	6360
1989-90	0	4	138	334	785	1527	995	937	691	483	241	18	6153
1990-91	2	0	97	422	622	1248	1437	928	719	339	107	0	5921
1991-92	0	0	147	370	927	1049	1107	884	726	473	181	27	5891
1992-93	3	33	147	405	819	1158							

See Reference Notes on Page 6B.

COOLING DEGREE DAYS Base 65 deg. F MOLINE, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL
1969	0	0	0	1	77	130	320	276	86	41	0	0	931
1970	0	0	0	32	119	198	341	256	105	15	0	0	1066
1971	0	0	0	9	32	355	203	225	212	44	0	0	1080
1972	0	0	0	3	102	165	312	294	138	6	0	0	1020
1973	0	0	0	2	2	226	312	323	103	27	0	0	995
1974	0	0	0	17	50	113	389	180	45	3	0	0	797
1975	0	0	0	1	85	241	325	319	44	29	0	0	1044
1976	0	0	0	26	12	175	341	221	72	13	0	0	860
1977	0	0	0	44	182	173	397	199	73	0	0	0	1068
1978	0	0	1	0	87	202	288	267	195	5	0	0	1045
1979	0	0	0	0	83	206	272	245	79	22	0	0	907
1980	0	0	0	11	65	158	395	343	107	1	0	0	1080
1981	0	0	0	8	27	191	275	209	50	0	0	0	760
1982	0	0	0	0	102	78	327	215	95	20	0	0	837
1983	0	0	0	1	12	260	453	459	138	14	0	0	1337
1984	0	0	0	9	21	268	261	327	116	3	0	0	1005
1985	0	0	0	64	71	165	292	154	172	0	0	0	918
1986	0	0	12	31	48	216	396	143	133	4	0	0	983
1987	0	0	0	20	162	298	453	277	71	0	3	0	1284
1988	0	0	0	0	69	263	416	410	112	3	0	0	1273
1989	0	0	4	13	53	159	356	236	52	20	0	0	893
1990	0	0	10	40	8	216	294	280	159	18	3	0	1028
1991	0	0	6	21	183	297	324	284	149	16	0	0	1280
1992	0	0	0	6	61	143	181	115	77	13	0	0	596

See Reference Notes on Page 6B.

SNOWFALL (inches)

MOLINE, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1963-64	0.0	0.0	0.0	0.0	T	9.7	5.3	5.5	13.9	T	0.0	0.0	34.4
1964-65	0.0	0.0	0.0	0.0	2.1	11.7	10.2	7.4	16.2	0.0	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.3	5.7	6.0	0.8	0.7	0.1	T	0.0	13.6
1966-67	0.0	0.0	0.0	0.0	T	7.2	14.4	13.2	2.2	1.1	0.0	0.0	38.1
1967-68	0.0	0.0	0.0	6.6	0.3	3.2	8.6	2.8	1.1	T	0.0	0.0	22.6
1968-69	0.0	0.0	0.0	T	5.9	5.4	6.2	0.9	5.6	0.0	T	0.0	24.0
1969-70	0.0	0.0	0.0	0.0	1.5	15.4	7.2	6.1	12.7	8.3	0.0	0.0	51.2
1970-71	0.0	0.0	0.0	0.0	0.2	2.2	17.7	2.6	7.8	T	0.0	0.0	30.5
1971-72	0.0	0.0	0.0	0.0	5.9	0.3	11.8	13.7	19.8	2.6	0.0	0.0	54.1
1972-73	0.0	0.0	0.0	2.0	6.7	6.6	0.4	8.6	0.5	0.9	0.0	0.0	25.7
1973-74	0.0	0.0	0.0	0.0	T	11.4	12.7	7.4	3.0	0.6	0.0	0.0	35.1
1974-75	0.0	0.0	0.0	0.0	15.6	8.8	7.6	19.3	12.2	6.2	0.0	0.0	69.7
1975-76	0.0	0.0	0.0	0.0	9.9	2.5	8.6	0.1	0.6	0.0	T	0.0	21.7
1976-77	0.0	0.0	0.0	0.0	7.7	4.1	12.3	2.5	10.8	1.0	0.0	0.0	38.4
1977-78	0.0	0.0	0.0	0.0	4.8	20.8	6.1	6.8	6.5	T	0.0	0.0	45.0
1978-79	0.0	0.0	0.0	0.0	7.1	21.7	26.7	4.5	3.4	0.6	0.0	0.0	64.0
1979-80	0.0	0.0	0.0	T	1.9	0.8	4.2	13.1	7.5	9.5	0.0	0.0	37.0
1980-81	0.0	0.0	0.0	2.4	1.1	4.5	5.3	5.6	T	0.0	0.0	0.0	18.9
1981-82	0.0	0.0	0.0	T	3.3	4.3	13.6	4.5	6.6	13.0	0.0	0.0	45.3
1982-83	0.0	0.0	0.0	0.0	T	0.5	4.7	6.2	12.7	0.7	0.0	0.0	24.8
1983-84	0.0	0.0	0.0	T	0.9	18.9	9.9	1.9	13.6	0.1	0.0	0.0	45.3
1984-85	0.0	0.0	0.0	0.0	T	9.3	13.4	7.5	0.2	T	0.0	0.0	30.4
1985-86	0.0	0.0	0.0	0.0	3.1	11.5	3.7	7.8	0.2	0.4	0.0	0.0	26.7
1986-87	0.0	0.0	0.0	0.0	2.2	0.2	9.1	T	0.1	0.0	0.0	0.0	11.6
1987-88	0.0	0.0	0.0	T	0.6	15.9	2.7	16.4	0.5	0.0	0.0	0.0	36.1
1988-89	0.0	0.0	0.0	T	1.0	2.5	T	13.8	0.4	T	T	0.0	17.7
1989-90	0.0	0.0	0.0	T	0.1	8.2	6.3	10.3	T	T	0.0	T	24.9
1990-91	0.0	0.0	0.0	0.0	T	7.5	11.1	1.5	5.4	0.0	0.0	0.0	25.5
1991-92	0.0	0.0	T	T	1.0	6.7	5.2	1.4	3.6	T	0.0	T	17.9
1992-93	0.0	0.0	0.0	T	0.6	7.2							
Record Mean	0.0	0.0	T	0.2	2.2	7.1	7.8	5.9	6.0	1.0	T	T	30.2

See Reference Notes on Page 6B.

REFERENCE NOTES

MOLINE, ILLINOIS

GENERAL
T - TRACE AMOUNT.
BLANK ENTRIES DENOTE MISSING/UNREPORTED DATA.
# INDICATES A STATION OR INSTRUMENT RELOCATION.
SEE STATION LOCATION TABLE ON PAGE 8.

SPECIFIC
PAGE 2
PM - INCLUDES LAST DAY OF PREVIOUS MONTH
ASOS - AUTOMATED SURFACE OBSERVING SYSTEM IN OPERATION DURING THESE MONTHS.

PAGE 3
(a) - LENGTH OF RECORD IN YEARS, ALTHOUGH INDIVIDUAL MONTHS MAY BE MISSING.
0.* OR * - THE VALUE IS BETWEEN 0.0 AND 0.05
NORMALS - BASED ON THE 1951-1980 RECORD PERIOD.
EXTREMES - DATES ARE THE MOST RECENT OCCURRENCE
WIND DIR.- NUMERALS SHOW TENS OF DEGRESS CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM.
RESULTANT DIRECTIONS ARE GIVEN TO WHOLE DEGREES.
BOLD VALUES INDICATE EXTREME VALUES WHICH OCCURRED AFTER THE ASOS SYSTEM WAS COMMISSIONED.

PAGE 4B
RECORD = PERIOD OF RECORD
RECORD MEAN PRECIPITATION IS THE MEAN OF ALL DAILY PRECIPITATION AMOUNTS DURING THE PERIOD OF RECORD.
RECORD MAX(MIN) TEMPERATURE IS THE MEAN OF ALL DAILY MAX(MIN) TEMPERATURES DURING THE PERIOD OF RECORD.
RECORD MEAN TEMPERATURE IS THE SUM OF THE RECORD MAX AND RECORD MIN DIVIDED BY 2.
AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAX AND MIN TEMPERATURE DIVIDED BY 2.

EXCEPTIONS

PAGES 4A, 4B, 6A
RECORD MEANS ARE THROUGH THE CURRENT YEAR,
BEGINNING IN 1930 FOR TEMPERATURE
1927 FOR PRECIPITATION
1933 FOR SNOWFALL

MOLINE, ILLINOIS

The locality is in the heart of the Corn Belt. Agricultural crops include many important staple products in addition to corn. Cattle, hogs, horses, and poultry produced in Iowa and Illinois rank high in the nation. Close to the Mississippi River there is large scale truck gardening and considerable dairying. Field production of grains and livestock attains greater development farther away from the large streams, where the countryside is rolling prairie. Damaging droughts are not common. This, together with the variety of agricultural products, has led to designating the section as the Bread Basket of America.

The climate is favorable for many industries as evidenced by the large number and variety of manufacturing and other enterprises which have located and developed in the community. Among these are some of the largest producers of agricultural machinery in the world.

This area has a temperate continental climate, with a wide temperature range throughout the year. There are some intensely hot, unusually humid, periods in summer and severely cold periods in winter. Maxima of 90 degrees or more have occurred in summer as frequently as 55 days and zero or lower readings have occurred during every winter.

Freezing temperatures have occurred as late in spring as late May and as early in autumn as late September. Precipitation is usually well distributed throughout the year with the greatest amounts falling during the 177-day average crop growing season. Substantial weather changes frequently occur at three or four day intervals, as a direct result of proximity to some of the most important storm tracks.

STATION LOCATION

MOLINE, ILLINOIS

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE SEA LEVEL: GROUND TEMPERATURE SITE	ELEVATION ABOVE GROUND: WIND INSTRUMENTS	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET RAIN GAGE	WEIGHING RAIN GAGE	8 INCH RAIN GAGE	HYGROTHERMOMETER	AUTOMATIC OBSERVING EQUIPMENT *	REMARKS
NE Corner, Moline AP 4.5 miles S of Moline Post Office	10/1/26	12/27/39	NA	41°27'	90°31'	589	53	3	3				3			
Administration Building Quad City Airport	12/27/39	4/3/61	1200 ft. W	41°27'	90°31'	589 h582	62 f25	5 b36 c5 d36	5 a36 c5 d36	Unk		4 e5	15	g4		a - Moved to roof site 12/1/54. b - Moved to roof site 5/31/55. c - Moved to field site 6/7/56. d - Moved to roof site 4/16/58. e - Effective 4/16/58. f - Moved to field site 11/13/58. g - Telepsychrometer (5') 6/7/56-3/1/60. Hygro. comm. 3/1/60. h - Effective 3/1/60.
Terminal Building Quad City Airport	4/4/61	Present	200 ft. SE	41°27'	90°31'	582	i25 n30	17 n4	17 n4	27 n7	NA k16 n4	i5 j16 n4	15 n4	i4 m4 n4	NA	i - Not moved 4/4/61. j - Effective 7/22/63. k - Added 6/1/64. m - Type change 6/27/85. n - Moved to field site 1/5/91.

* Type
M = AMOS
T = AUTOB
S = ASOS
W = AWOS

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1991 LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

MOLINE,
ILLINOIS

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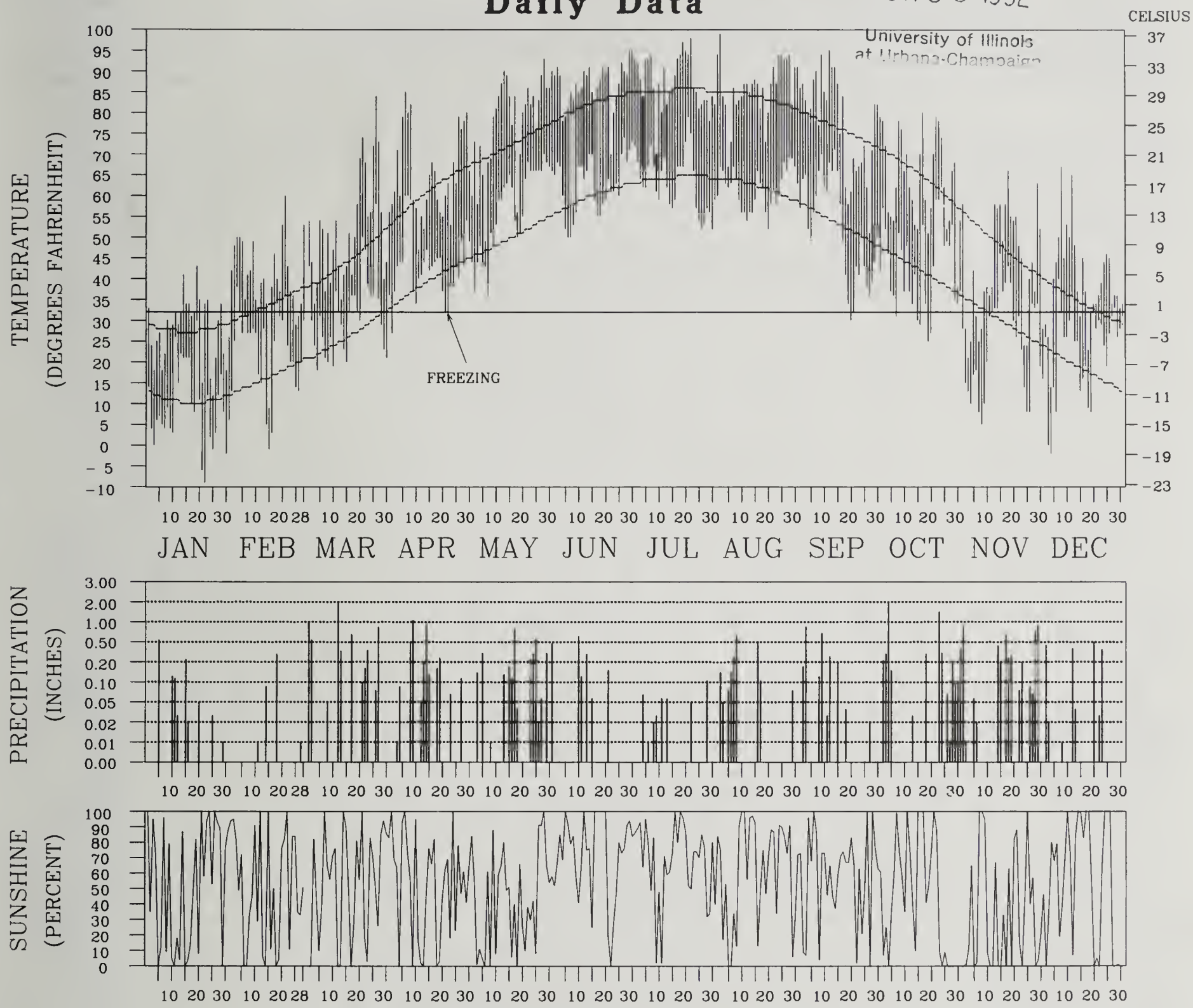
Daily Data



TEMPERATURE DEPICTS NORMAL MAXIMUM, NORMAL MINIMUM AND ACTUAL DAILY HIGH AND LOW VALUES (FAHRENHEIT)
PRECIPITATION IS MEASURED IN INCHES, SCALE IS NON-LINEAR
SUNSHINE IS PERCENT OF THE POSSIBLE SUNSHINE

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Kenneth D Wadlen
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

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NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

METEOROLOGICAL DATA FOR 1991

MOLINE, ILLINOIS

LATITUDE: 41°27' N LONGITUDE: 90°31' W ELEVATION: FT. GRND 582 BARO 605 TIME ZONE: CENTRAL WBAN: 14923

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:													
Averages													
-Daily Maximum	27.7	40.5	52.1	65.3	77.8	86.6	87.4	86.2	77.6	64.0	43.1	39.2	62.3
-Daily Minimum	9.1	22.8	31.4	43.0	56.8	62.5	63.2	61.6	52.0	42.6	24.6	22.7	41.0
-Monthly	18.4	31.7	41.8	54.2	67.3	74.6	75.3	73.9	64.8	53.3	33.9	31.0	51.7
-Monthly Dewpt.	13.5	24.1	31.4	41.8	58.3	62.9	62.8	62.8	53.1	42.3	27.4	24.8	42.1
Extremes													
-Highest	43	60	84	85	93	95	98	99	95	80	66	67	99
-Date	19	21	26	6	28	30	22	2	12	17	18	8	AUG 2
-Lowest	-9	-1	18	27	36	50	52	52	30	25	5	-2	-9
-Date	22	15	4	1	7	7	30	20	20	19	8	4	JAN 22
DEGREE DAYS BASE 65 °F:													
Heating	1437	928	719	339	107	0	0	0	147	370	927	1049	6023
Cooling	0	0	6	21	183	297	324	284	149	16	0	0	1280
% OF POSSIBLE SUNSHINE	53	50	54	51	43	72	67	62	58	44	33	52	54
AVG. SKY COVER (tenths)													
Sunrise - Sunset	6.5	6.8	6.4	6.7	7.2	5.1	5.1	5.4	5.5	6.3	7.3	5.9	6.2
Midnight - Midnight	5.9	5.8	6.0	6.6	6.6	4.6	4.3	4.7	4.9	5.9	6.8	5.6	5.6
NUMBER OF DAYS:													
Sunrise to Sunset													
-Clear	10	6	8	4	4	12	9	11	8	9	5	11	97
-Partly Cloudy	5	6	7	10	10	10	16	11	11	6	7	5	104
-Cloudy	16	16	16	16	17	8	6	9	11	16	18	15	164
Precipitation .01 inches or more	9	4	11	12	15	5	8	9	9	14	15	8	119
Snow, Ice pellets, hail 1.0 inches or more	3	1	2	0	0	0	0	0	0	0	0	2	8
Thunderstorms	0	0	5	8	11	5	3	7	6	7	1	1	54
Heavy Fog, visibility 1/4 mile or less	0	5	2	1	1	0	0	1	0	2	2	2	16
Temperature °F													
-Maximum													
90° and above	0	0	0	0	3	10	12	10	5	0	0	0	40
32° and below	22	3	0	0	0	0	0	0	0	0	8	7	40
-Minimum													
32° and below	31	25	19	3	0	0	0	0	2	5	20	28	133
0° and below	5	1	0	0	0	0	0	0	0	0	0	2	8
AVG. STATION PRESS. (mb)	1000.3	996.8	989.2	992.9	993.9	994.9	993.9	996.3	997.6	994.6	997.0	1000.0	995.6
RELATIVE HUMIDITY (%)													
Hour 00 (Local Time)	83	80	76	75	86	83	84	88	82	77	83	83	82
Hour 06 (Local Time)	84	83	81	82	88	85	85	92	88	82	83	84	85
Hour 12 (Local Time)	69	66	61	56	63	53	50	53	50	56	68	71	60
Hour 18 (Local Time)	78	71	62	52	68	57	54	58	62	68	79	80	66
PRECIPITATION (inches):													
Water Equivalent													
-Total	1.19	0.43	6.31	3.69	3.87	1.32	0.41	2.06	2.52	5.80	5.03	1.86	34.49
-Greatest (24 hrs)	0.56	0.32	2.14	1.62	0.86	0.78	0.11	0.95	1.05	2.26	1.13	0.50	2.26
-Date	5	18	12-13	8- 9	17-18	10-11	28	7- 8	2- 3	3- 4	PM- 1	20	OCT 3- 4
Snow, Ice pellets, hail													
-Total	11.1	1.5	5.4	0.0	0.0	0.0	0.0	0.0	T	T	1.0	6.7	25.7
-Greatest (24 hrs)	5.9	1.1	5.3	0.0	0.0	0.0	0.0	0.0	T	T	0.4	4.9	5.9
-Date	4- 5	14	12-13						9	18	23	2- 3	JAN 4- 5
WIND:													
Resultant													
-Direction (!!)	273	280	266	143	192	161	233	138	233	251	254	264	245
-Speed (mph)	4.4	4.7	1.3	0.9	2.7	2.3	2.6	0.5	2.3	1.9	4.3	3.4	2.1
Average Speed (mph)	10.2	9.4	13.4	12.6	10.4	6.1	6.4	5.6	7.0	9.2	10.4	8.3	9.1
Fastest Obs. 1 Min.													
-Direction (!!)	28	30	27	07	01	22	33	30	32	27	28	29	27
-Speed (mph)	29	28	43	30	37	21	23	25	28	25	33	26	43
-Date	23	14	23	11	17	13	12	8	12	5	2	3	MAR 23
Peak Gust													
-Direction (!!)	W	NW	SW	SW	N	SW	SW	NW	NW	NW	W	W	SW
-Speed (mph)	40	43	69	47	51	29	35	37	44	37	51	47	69
-Date	23	14	22	29	31	13	3	8	12	14	1	14	MAR 22

(!!) See Reference Notes on Page 6B

NORMALS, MEANS, AND EXTREMES

MOLINE, ILLINOIS

LATITUDE: 41°27'N LONGITUDE: 90°31' W ELEVATION: FT. GRND 582 BARO 605 TIME ZONE: CENTRAL WBAN: 14923

	(a)	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:														
Normals														
-Daily Maximum		28.0	33.7	44.8	61.1	72.5	82.1	85.4	83.6	76.2	64.8	48.0	34.3	59.5
-Daily Minimum		11.0	16.4	26.5	39.6	50.1	59.9	64.3	62.1	53.2	42.1	30.0	18.4	39.5
-Monthly		19.5	25.1	35.7	50.4	61.3	71.0	74.9	72.9	64.7	53.5	39.0	26.4	49.5
Extremes														
-Record Highest	59	69	71	88	93	104	104	105	106	100	92	80	69	106
-Year		1989	1976	1986	1986	1934	1988	1940	1936	1939	1963	1933	1970	AUG 1936
-Record Lowest	59	-27	-25	-19	7	26	39	46	40	24	16	-9	-24	-27
-Year		1979	1979	1960	1982	1966	1972	1971	1986	1942	1988	1976	1989	JAN 1979
NORMAL DEGREE DAYS:														
Heating (base 65°F)		1411	1117	908	438	177	20	0	5	75	370	780	1197	6498
Cooling (base 65°F)		0	0	0	0	62	200	307	250	66	14	0	0	899
% OF POSSIBLE SUNSHINE	48	48	50	50	53	56	63	68	66	62	58	42	41	55
MEAN SKY COVER (tenths)														
Sunrise - Sunset	49	6.5	6.4	6.8	6.5	6.3	5.9	5.3	5.3	5.2	5.3	6.7	6.8	6.1
MEAN NUMBER OF DAYS:														
Sunrise to Sunset														
-Clear	58	7.9	7.2	6.4	6.6	7.4	7.4	10.2	10.3	11.7	11.6	7.3	7.1	101.3
-Partly Cloudy	58	7.0	6.4	7.9	8.7	9.3	10.6	11.8	10.9	7.9	7.6	6.8	6.2	101.2
-Cloudy	58	16.1	14.6	16.7	14.7	14.3	12.0	8.9	9.8	10.4	11.7	15.9	17.7	162.8
Precipitation .01 inches or more	59	9.0	7.9	11.0	10.9	12.0	10.1	9.5	8.9	8.7	7.8	8.5	9.3	113.4
Snow, Ice pellets, hail 1.0 inches or more	59	2.6	2.1	1.8	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.7	2.3	9.7
Thunderstorms	58	0.3	0.5	2.2	4.5	6.8	8.3	8.3	7.1	4.4	2.5	1.2	0.8	46.9
Heavy Fog Visibility 1/4 mile or less	57	2.2	2.0	1.9	0.8	0.8	0.6	0.7	2.0	1.6	1.9	1.2	1.8	17.5
Temperature °F														
-Maximum														
90° and above	31	0.0	0.0	0.0	0.1	1.3	5.5	9.0	6.1	1.9	0.1	0.0	0.0	24.0
32° and below	31	18.2	12.5	3.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	2.2	12.9	49.4
-Minimum														
32° and below	31	29.5	25.5	20.7	7.2	0.6	0.0	0.0	0.0	0.3	5.9	18.3	27.4	135.4
0° and below	31	8.2	4.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.8	16.7
AVG. STATION PRESS. (mb)	19	997.5	997.5	993.9	993.0	992.5	992.9	994.3	995.2	995.9	996.4	995.7	997.3	995.2
RELATIVE HUMIDITY (%)														
Hour 00 (Local Time)	31	73	74	74	72	75	77	82	85	83	76	76	77	77
Hour 06 (Local Time)	31	74	76	78	78	80	81	85	89	88	81	79	78	81
Hour 12 (Local Time)	31	65	63	60	54	53	53	56	58	57	55	63	69	59
Hour 18 (Local Time)	31	69	67	62	54	53	53	58	62	65	63	69	73	62
PRECIPITATION (inches):														
Water Equivalent														
-Normal		1.64	1.30	2.77	3.97	4.21	4.32	4.88	3.76	3.74	2.70	1.96	1.92	37.17
-Maximum Monthly	62	4.39	2.80	7.43	11.30	11.43	9.59	11.39	15.23	14.18	9.41	6.47	4.99	15.23
-Year		1974	1985	1973	1973	1974	1990	1969	1987	1970	1941	1934	1982	AUG 1987
-Minimum Monthly	62	0.31	0.17	0.31	0.68	0.55	1.02	0.41	0.35	0.02	0.01	0.29	0.23	0.01
-Year		1961	1933	1958	1946	1928	1963	1991	1971	1979	1964	1933	1929	OCT 1964
-Maximum in 24 hrs	62	2.07	1.90	2.42	5.81	3.68	5.02	5.41	5.13	6.29	4.89	2.73	3.38	6.29
-Year		1960	1948	1985	1973	1970	1967	1963	1987	1961	1954	1961	1942	SEP 1961
Snow, Ice pellets, hail														
-Maximum Monthly	60	26.7	19.3	19.8	13.0	0.3	T	0.0	0.0	0.1	6.6	15.6	21.7	26.7
-Year		1979	1975	1972	1982	1935	1990			1942	1967	1974	1978	JAN 1979
-Maximum in 24 hrs	58	16.4	10.1	11.0	8.2	0.3	T	0.0	0.0	0.1	6.5	8.5	11.4	16.4
-Year		1971	1975	1972	1970	1935	1990			1942	1967	1975	1987	JAN 1971
WIND:														
Mean Speed (mph)	48	11.0	10.9	12.1	12.2	10.4	9.2	7.7	7.3	8.2	9.3	10.9	10.7	10.0
Prevailing Direction through 1963		WNW	WNW	WNW	NW	E	S	E	E	S	S	WNW	WNW	WNW
Fastest Mile														
-Direction (!!!)	60	SW	NW	SW	SW	SW	SW	W	N	NW	SW	W	SW	SW
-Speed (MPH)	60	56	58	66	73	68	77	65	63	66	56	60	61	77
-Year		1946	1948	1954	1947	1955	1947	1953	1987	1945	1949	1952	1947	JUN 1947
Peak Gust														
-Direction (!!!)	8	W	NW	SW	SW	NW	W	NW	N	SW	SW	W	NW	N
-Speed (mph)	8	59	54	69	69	60	59	52	81	49	61	52	56	81
-Date		1990	1990	1991	1984	1988	1990	1984	1987	1988	1984	1988	1985	AUG 1987

(!!!) See Reference Notes on Page 6B.

PRECIPITATION (inches)

MOLINE, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1962	2.08	1.84	2.42	2.44	6.10	1.48	6.73	1.95	2.90	4.15	1.21	0.55	33.85
1963	0.91	0.37	3.29	4.24	2.36	1.02	8.78	4.02	2.38	0.63	1.84	0.94	30.78
1964	1.59	0.73	4.02	6.37	2.68	3.89	5.31	2.41	3.99	0.01	3.40	1.27	35.67
1965	4.08	0.97	2.52	7.92	4.04	2.07	4.78	9.31	8.27	0.88	1.93	2.82	49.59
1966	2.01	0.89	0.85	3.96	6.39	4.25	7.74	0.77	2.80	4.38	1.12	2.52	37.68
1967	2.00	1.11	1.68	4.91	1.70	8.15	4.15	3.62	4.99	6.23	2.26	1.56	42.36
1968	0.80	0.32	1.96	3.57	2.59	3.70	3.91	2.16	5.70	1.09	3.29	2.76	31.85
1969	3.28	0.21	2.25	3.11	3.40	6.97	11.39	2.00	2.50	4.63	0.53	1.52	41.79
1970	0.54	0.57	2.62	4.66	11.07	3.25	6.27	3.61	14.18	1.75	1.25	1.95	51.72
1971	1.79	1.57	1.99	1.86	3.14	2.36	11.22	0.35	4.54	2.64	2.21	4.77	38.44
1972	1.19	1.24	3.73	5.19	4.24	8.66	3.79	8.20	3.29	2.39	2.75	1.98	46.65
1973	2.53	1.94	7.43	11.30	6.96	6.58	2.63	2.30	6.74	3.06	1.15	3.74	56.36
1974	4.39	1.57	2.94	5.08	11.43	8.83	1.73	3.37	1.08	1.99	2.59	1.83	46.83
1975	1.50	1.75	3.30	2.88	3.23	3.50	2.71	3.23	1.99	0.90	2.98	0.98	28.95
1976	0.88	1.11	3.67	4.21	4.13	2.02	3.34	0.60	1.89	2.13	0.65	0.34	24.97
1977	0.87	0.62	4.61	1.57	2.66	5.18	6.04	6.98	4.80	4.09	2.78	1.76	41.96
1978	0.59	0.67	0.78	3.02	4.65	3.50	3.24	2.47	3.91	1.95	3.32	3.17	31.27
1979	2.72	1.02	2.77	4.01	2.86	2.85	4.40	6.94	0.02	2.51	2.13	2.27	34.50
1980	1.31	1.55	1.74	2.34	4.01	4.97	3.46	9.09	2.94	1.63	0.70	2.75	36.49
1981	0.32	2.45	0.69	4.48	1.48	5.51	3.07	6.90	4.20	4.42	2.42	0.72	36.66
1982	2.08	0.45	3.85	3.33	5.03	3.61	8.83	2.89	1.94	3.38	3.64	4.99	44.02
1983	0.55	1.50	2.88	4.88	2.06	5.21	2.79	0.96	5.30	2.36	5.78	2.55	36.82
1984	0.84	0.79	3.45	4.31	4.97	3.75	4.63	1.31	2.32	6.60	2.91	3.51	39.39
1985	1.04	2.80	4.71	2.14	3.46	2.26	3.33	2.76	1.71	8.54	6.35	2.21	41.31
1986	0.38	2.53	1.35	3.15	5.54	5.10	6.34	3.24	5.63	4.23	1.03	1.95	40.47
1987	0.91	0.89	2.57	1.49	3.35	1.54	1.91	15.23	1.11	0.79	3.33	4.46	37.58
1988	1.74	1.08	2.36	1.36	2.32	1.16	1.79	4.89	1.97	2.37	3.14	1.57	25.75
1989	1.21	1.21	1.85	3.62	3.42	3.31	3.10	6.17	5.42	1.18	0.71	0.73	31.93
1990	1.66	1.99	6.68	3.50	7.68	9.59	3.56	6.42	1.04	2.35	2.87	3.07	50.41
1991	1.19	0.43	6.31	3.69	3.87	1.32	0.41	2.06	2.52	5.80	5.03	1.86	34.49
Record Mean	1.53	1.29	2.72	3.62	4.00	4.32	4.11	3.82	3.61	2.82	2.28	1.86	35.98

See Reference Notes on Page 6B.

AVERAGE TEMPERATURE (deg. F)

MOLINE, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1962	16.2	23.7	32.6	49.3	67.9	70.6	71.6	72.9	61.7	55.2	39.0	23.2	48.7
1963	9.7	17.9	41.1	52.9	60.0	73.5	74.8	70.8	64.9	64.4	43.1	13.8	48.9
1964	28.4	27.0	34.4	51.5	66.3	72.3	76.6	70.8	65.6	50.7	44.2	24.8	51.1
1965	21.4	25.7	26.9	49.2	65.9	69.6	74.9	71.1	63.5	53.6	40.7	34.5	49.8
1966	14.3	24.8	39.2	47.0	56.3	70.5	77.9	70.6	62.9	52.5	41.7	28.1	48.8
1967	26.0	18.7	39.0	51.6	56.4	70.9	71.4	67.7	62.1	52.1	36.1	28.5	48.4
1968	21.0	22.7	41.9	51.3	57.2	72.1	73.1	73.5	63.1	53.2	37.3	24.5	49.3
1969	17.9	27.9	32.2	51.6	61.7	67.1	75.0	73.7	64.9	51.7	37.9	24.3	48.8
1970	13.1	24.7	33.6	51.8	64.9	70.7	75.7	72.9	65.2	53.9	39.2	28.9	49.5
1971	14.8	25.9	34.7	50.9	58.0	76.6	70.7	71.9	68.7	59.9	40.0	31.6	50.3
1972	18.6	20.7	36.0	48.0	63.0	69.4	74.6	74.0	66.7	50.2	37.3	22.3	48.4
1973	27.1	28.7	45.4	49.7	57.6	72.3	74.9	75.1	65.7	57.3	40.4	23.7	51.5
1974	21.6	26.8	38.5	53.3	58.8	67.5	77.3	70.3	60.4	53.7	40.1	28.6	49.8
1975	24.9	25.0	30.6	45.1	63.8	72.3	75.0	75.1	60.9	56.2	45.0	30.3	50.4
1976	19.1	35.2	41.2	52.9	57.5	70.5	75.8	71.8	63.0	46.8	30.1	19.6	48.6
1977	8.2	27.1	43.6	56.6	68.9	70.0	77.5	71.0	65.5	51.2	38.7	21.7	50.0
1978	12.4	14.1	33.0	50.8	60.2	71.0	74.0	73.2	69.2	51.5	39.2	22.7	47.6
1979	6.3	13.2	36.3	47.4	61.9	71.2	73.5	72.0	64.3	52.1	37.0	31.7	47.2
1980	23.4	19.2	33.5	49.1	62.7	69.2	77.6	75.8	65.7	48.6	39.7	26.6	49.3
1981	23.4	27.1	39.4	54.3	57.5	71.0	73.3	71.2	63.5	49.9	41.1	25.3	49.7
1982	10.6	21.4	34.6	44.7	66.1	66.2	75.4	71.3	64.2	54.7	39.2	35.3	48.7
1983	26.9	32.0	38.9	45.5	57.8	72.9	79.4	79.6	65.6	53.1	42.9	14.0	50.7
1984	19.6	34.5	31.2	49.1	58.2	73.6	73.1	75.2	62.9	55.1	39.3	31.1	50.2
1985	14.3	21.8	42.5	57.1	64.9	69.4	74.2	69.7	66.1	53.6	35.2	14.9	48.6
1986	25.1	22.9	42.5	54.6	63.0	71.7	77.6	68.3	67.3	53.4	34.8	30.0	50.9
1987	25.2	34.4	42.2	52.6	66.8	74.6	79.4	72.9	64.4	47.4	44.0	31.0	52.9
1988	20.2	21.7	38.7	50.6	64.1	73.1	78.2	77.8	67.0	47.3	40.3	29.0	50.7
1989	32.7	17.4	37.0	49.9	58.8	69.2	76.2	72.2	61.9	54.6	38.6	15.6	48.7
1990	32.7	31.3	42.8	50.0	57.3	71.3	74.2	73.7	66.9	51.7	44.2	24.6	51.7
1991	18.4	31.7	41.8	54.2	67.3	74.6	75.3	73.9	64.8	53.3	33.9	31.0	51.7
Record Mean	21.5	26.0	36.7	50.4	61.3	71.3	75.4	73.2	65.1	53.5	39.0	26.5	50.0
Max	30.1	34.8	45.9	61.2	72.5	82.3	86.4	84.2	76.6	65.0	48.1	34.5	60.1
Min	12.9	17.3	27.4	39.5	50.1	60.2	64.3	62.1	53.5	42.1	30.0	18.5	39.8

See Reference Notes on Page 6B.

HEATING DEGREE DAYS Base 65 deg. F MOLINE, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1962-63	8	1	149	342	774	1292	1717	1315	734	370	186	15	6903
1963-64	0	16	83	108	653	1585	1129	1097	942	405	71	20	6109
1964-65	3	24	100	437	624	1241	1344	1096	1174	471	86	3	6603
1965-66	0	21	115	363	722	939	1568	1119	794	533	287	31	6492
1966-67	0	6	116	386	695	1137	1202	1289	802	404	305	10	6352
1967-68	21	33	136	424	860	1127	1354	1221	711	409	248	18	6562
1968-69	8	15	96	404	826	1247	1458	1032	1010	398	172	57	6723
1969-70	0	0	80	445	805	1253	1607	1120	967	419	118	21	6835
1970-71	0	2	92	350	764	1111	1556	1088	931	425	242	0	6561
1971-72	17	3	94	195	740	1026	1434	1280	893	504	155	25	6366
1972-73	8	7	80	459	824	1319	1170	1013	598	452	223	1	6154
1973-74	0	0	78	258	733	1274	1338	1061	812	360	235	32	6181
1974-75	0	8	180	349	739	1122	1235	1114	1058	593	117	14	6529
1975-76	9	0	162	297	594	1072	1413	855	731	385	235	2	5755
1976-77	0	5	123	569	1038	1403	1755	1059	656	286	54	15	6963
1977-78	0	5	50	420	780	1337	1625	1417	986	423	229	13	7285
1978-79	1	4	59	415	767	1305	1820	1445	884	521	172	12	7405
1979-80	5	22	95	415	831	1027	1280	1324	966	481	129	27	6602
1980-81	0	1	77	503	755	1180	1281	1055	783	322	253	3	6213
1981-82	12	9	91	459	710	1226	1682	1214	936	604	62	35	7040
1982-83	0	14	110	333	765	916	1175	917	802	578	228	17	5855
1983-84	1	0	110	377	654	1578	1406	880	1039	482	225	2	6754
1984-85	3	4	171	303	761	1042	1568	1203	692	293	66	25	6131
1985-86	0	4	133	347	888	1546	1231	1174	705	338	104	9	6479
1986-87	0	30	55	358	898	1078	1227	850	701	385	101	4	5687
1987-88	0	23	84	540	627	1046	1384	1250	807	427	90	15	6293
1988-89	1	9	45	544	736	1109	998	1326	863	461	240	28	6360
1989-90	0	4	138	334	785	1527	995	937	691	483	241	18	6153
1990-91	2	0	97	422	622	1248	1437	928	719	339	107	0	5921
1991-92	0	0	147	370	927	1049							

See Reference Notes on Page 6B.

COOLING DEGREE DAYS Base 65 deg. F MOLINE, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL
1969	0	0	0	1	77	130	320	276	86	41	0	0	931
1970	0	0	0	32	119	198	341	256	105	15	0	0	1066
1971	0	0	0	9	32	355	203	225	212	44	0	0	1080
1972	0	0	0	3	102	165	312	294	138	6	0	0	1020
1973	0	0	0	2	2	226	312	323	103	27	0	0	995
1974	0	0	0	17	50	113	389	180	45	3	0	0	797
1975	0	0	0	1	85	241	325	319	44	29	0	0	1044
1976	0	0	0	26	12	175	341	221	72	13	0	0	860
1977	0	0	0	44	182	173	397	199	73	0	0	0	1068
1978	0	0	1	0	87	202	288	267	195	5	0	0	1045
1979	0	0	0	0	83	206	272	245	79	22	0	0	907
1980	0	0	0	11	65	158	395	343	107	1	0	0	1080
1981	0	0	0	8	27	191	275	209	50	0	0	0	760
1982	0	0	0	0	102	78	327	215	95	20	0	0	837
1983	0	0	0	1	12	260	453	459	138	14	0	0	1337
1984	0	0	0	9	21	268	261	327	116	3	0	0	1005
1985	0	0	0	64	71	165	292	154	172	0	0	0	918
1986	0	0	12	31	48	216	396	143	133	4	0	0	983
1987	0	0	0	20	162	298	453	277	71	0	3	0	1284
1988	0	0	0	0	69	263	416	410	112	3	0	0	1273
1989	0	0	4	13	53	159	356	236	52	20	0	0	893
1990	0	0	10	40	8	216	294	280	159	18	3	0	1028
1991	0	0	6	21	183	297	324	284	149	16	0	0	1280

See Reference Notes on Page 6B.

SNOWFALL (inches)

MOLINE, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1962-63	0.0	0.0	0.0	0.2	T	3.1	14.7	5.8	7.3	0.0	0.0	0.0	31.1
1963-64	0.0	0.0	0.0	0.0	T	9.7	5.3	5.5	13.9	T	0.0	0.0	34.4
1964-65	0.0	0.0	0.0	0.0	2.1	11.7	10.2	7.4	16.2	0.0	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.3	5.7	6.0	0.8	0.7	0.1	T	0.0	13.6
1966-67	0.0	0.0	0.0	0.0	T	7.2	14.4	13.2	2.2	1.1	0.0	0.0	38.1
1967-68	0.0	0.0	0.0	6.6	0.3	3.2	8.6	2.8	1.1	T	0.0	0.0	22.6
1968-69	0.0	0.0	0.0	T	5.9	5.4	6.2	0.9	5.6	0.0	T	0.0	24.0
1969-70	0.0	0.0	0.0	0.0	1.5	15.4	7.2	6.1	12.7	8.3	0.0	0.0	51.2
1970-71	0.0	0.0	0.0	0.0	0.2	2.2	17.7	2.6	7.8	T	0.0	0.0	30.5
1971-72	0.0	0.0	0.0	0.0	5.9	0.3	11.8	13.7	19.8	2.6	0.0	0.0	54.1
1972-73	0.0	0.0	0.0	2.0	6.7	6.6	0.4	8.6	0.5	0.9	0.0	0.0	25.7
1973-74	0.0	0.0	0.0	0.0	T	11.4	12.7	7.4	3.0	0.6	0.0	0.0	35.1
1974-75	0.0	0.0	0.0	0.0	15.6	8.8	7.6	19.3	12.2	6.2	0.0	0.0	69.7
1975-76	0.0	0.0	0.0	0.0	9.9	2.5	8.6	0.1	0.6	0.0	T	0.0	21.7
1976-77	0.0	0.0	0.0	0.0	7.7	4.1	12.3	2.5	10.8	1.0	0.0	0.0	38.4
1977-78	0.0	0.0	0.0	0.0	4.8	20.8	6.1	6.8	6.5	T	0.0	0.0	45.0
1978-79	0.0	0.0	0.0	0.0	7.1	21.7	26.7	4.5	3.4	0.6	0.0	0.0	64.0
1979-80	0.0	0.0	0.0	T	1.9	0.8	4.2	13.1	7.5	9.5	0.0	0.0	37.0
1980-81	0.0	0.0	0.0	2.4	1.1	4.5	5.3	5.6	T	0.0	0.0	0.0	18.9
1981-82	0.0	0.0	0.0	T	3.3	4.3	13.6	4.5	6.6	13.0	0.0	0.0	45.3
1982-83	0.0	0.0	0.0	0.0	T	0.5	4.7	6.2	12.7	0.7	0.0	0.0	24.8
1983-84	0.0	0.0	0.0	T	0.9	18.9	9.9	1.9	13.6	0.1	0.0	0.0	45.3
1984-85	0.0	0.0	0.0	0.0	T	9.3	13.4	7.5	0.2	T	0.0	0.0	30.4
1985-86	0.0	0.0	0.0	0.0	3.1	11.5	3.7	7.8	0.2	0.4	0.0	0.0	26.7
1986-87	0.0	0.0	0.0	0.0	2.2	0.2	9.1	T	0.1	0.0	0.0	0.0	11.6
1987-88	0.0	0.0	0.0	T	0.6	15.9	2.7	16.4	0.5	0.0	0.0	0.0	36.1
1988-89	0.0	0.0	0.0	T	1.0	2.5	T	13.8	0.4	T	T	0.0	17.7
1989-90	0.0	0.0	0.0	T	0.1	8.2	6.3	10.3	T	T	0.0	T	24.9
1990-91	0.0	0.0	0.0	0.0	T	7.5	11.1	1.5	5.4	0.0	0.0	0.0	25.5
1991-92	0.0	0.0	T	T	1.0	6.7							
Record Mean	0.0	0.0	T	0.2	2.2	7.1	7.8	6.0	6.0	1.0	T	T	30.4

See Reference Notes on Page 6B.

REFERENCE NOTES

MOLINE, ILLINOIS

GENERAL
T - TRACE AMOUNT.
BLANK ENTRIES DENOTE MISSING/UNREPORTED DATA.
# INDICATES A STATION OR INSTRUMENT RELOCATION.
SEE STATION LOCATION TABLE ON PAGE 8.

SPECIFIC
PAGE 2
PM - INCLUDES LAST DAY OF PREVIOUS MONTH

PAGE 3
(a) - LENGTH OF RECORD IN YEARS, ALTHOUGH
INDIVIDUAL MONTHS MAY BE MISSING.
0.* OR * THE VALUE IS BETWEEN 0.0 AND 0.05
NORMALS - BASED ON THE 1951-1980 RECORD PERIOD.
EXTREMES - DATES ARE THE MOST RECENT OCCURRENCE
WIND DIR.- NUMERALS SHOW TENS OF DEGRESS CLOCKWISE
FROM TRUE NORTH. "00" INDICATES CALM.
RESULTANT DIRECTIONS ARE GIVEN TO WHOLE DEGREES.

PAGE 4B
RECORD = PERIOD OF RECORD
RECORD MEAN PRECIPITATION IS THE MEAN OF ALL DAILY
PRECIPITATION AMOUNTS DURING THE PERIOD OF RECORD.
RECORD MAX(MIN) TEMPERATURE IS THE MEAN OF ALL DAILY
MAX(MIN) TEMPERATURES DURING THE PERIOD OF RECORD.
RECORD MEAN TEMPERATURE IS THE DIFFERENCE BETWEEN
THE RECORD MAX AND RECORD MIN DIVIDED BY 2.
AVERAGE TEMPERATURE IS THE DIFFERENCE BETWEEN THE
MEAN DAILY MAX AND MIN TEMPERATURE DIVIDED BY 2.

EXCEPTIONS

PAGES 4A, 4B, 6A
RECORD MEANS ARE THROUGH THE CURRENT YEAR,
BEGINNING IN 1930 FOR TEMPERATURE
1927 FOR PRECIPITATION
1933 FOR SNOWFALL

MOLINE, ILLINOIS

The locality is in the heart of the Corn Belt. Agricultural crops include many important staple products in addition to corn. Cattle, hogs, horses, and poultry produced in Iowa and Illinois rank high in the nation. Close to the Mississippi River there is large scale truck gardening and considerable dairying. Field production of grains and livestock attains greater development farther away from the large streams, where the countryside is rolling prairie. Damaging droughts are not common. This, together with the variety of agricultural products, has led to designating the section as the Bread Basket of America.

The climate is favorable for many industries as evidenced by the large number and variety of manufacturing and other enterprises which have located and developed in the community. Among these are some of the largest producers of agricultural machinery in the world.

This area has a temperate continental climate, with a wide temperature range throughout the year. There are some intensely hot, unusually humid, periods in summer and severely cold periods in winter. Maxima of 90 degrees or more have occurred in summer as frequently as 55 days and zero or lower readings have occurred during every winter.

Freezing temperatures have occurred as late in spring as late May and as early in autumn as late September. Precipitation is usually well distributed throughout the year with the greatest amounts falling during the 177-day average crop growing season. Substantial weather changes frequently occur at three or four day intervals, as a direct result of proximity to some of the most important storm tracks.

STATION LOCATION

MOLINE, ILLINOIS

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE SEA LEVEL: GROUND TEMPERATURE SITE	ELEVATION ABOVE GROUND: WIND INSTRUMENTS	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET RAIN GAGE	WEIGHING RAIN GAGE	8 INCH RAIN GAGE	HYGROTHERMOMETER	AUTOMATIC OBSERVING EQUIPMENT *	REMARKS
NE Corner, Moline AP 4.5 miles S of Moline Post Office	10/1/26	12/27/39	NA	41°27'	90°31'	589	53	3	3				3			
Administration Building Quad City Airport	12/27/39	4/3/61	1200 ft. W	41°27'	90°31'	589 h582	62 f25	5 b36 c5 d36	5 a36 c5 d36	Unk		4 e5	15	g4		a - Moved to roof site 12/1/54. b - Moved to roof site 5/31/55. c - Moved to field site 6/7/56. d - Moved to roof site 4/16/58. e - Effective 4/16/58. f - Moved to field site 11/13/58. g - Telepsychrometer (5') 6/7/56-3/1/60. Hygro. comm. 3/1/60. h - Effective 3/1/60.
Terminal Building Quad City Airport	4/4/61	Present	200 ft. SE	41°27'	90°31'	582	i25	17	17	27	NA k16	j5 j16	15	i4 m4	NA	i - Not moved 4/4/61. j - Effective 7/22/63. k - Added 6/1/64. m - Type change 6/27/85.

* Type
M = AMOS
T = AUTOB
S = ASOS
W = AWOS

SUBSCRIPTION:
Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801.
USCOMM-NOAA-ASHEVILLE, N.C. - 505

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ISSN 0198-1862

1990 LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

MOLINE,
ILLINOIS

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MAY 06 1991
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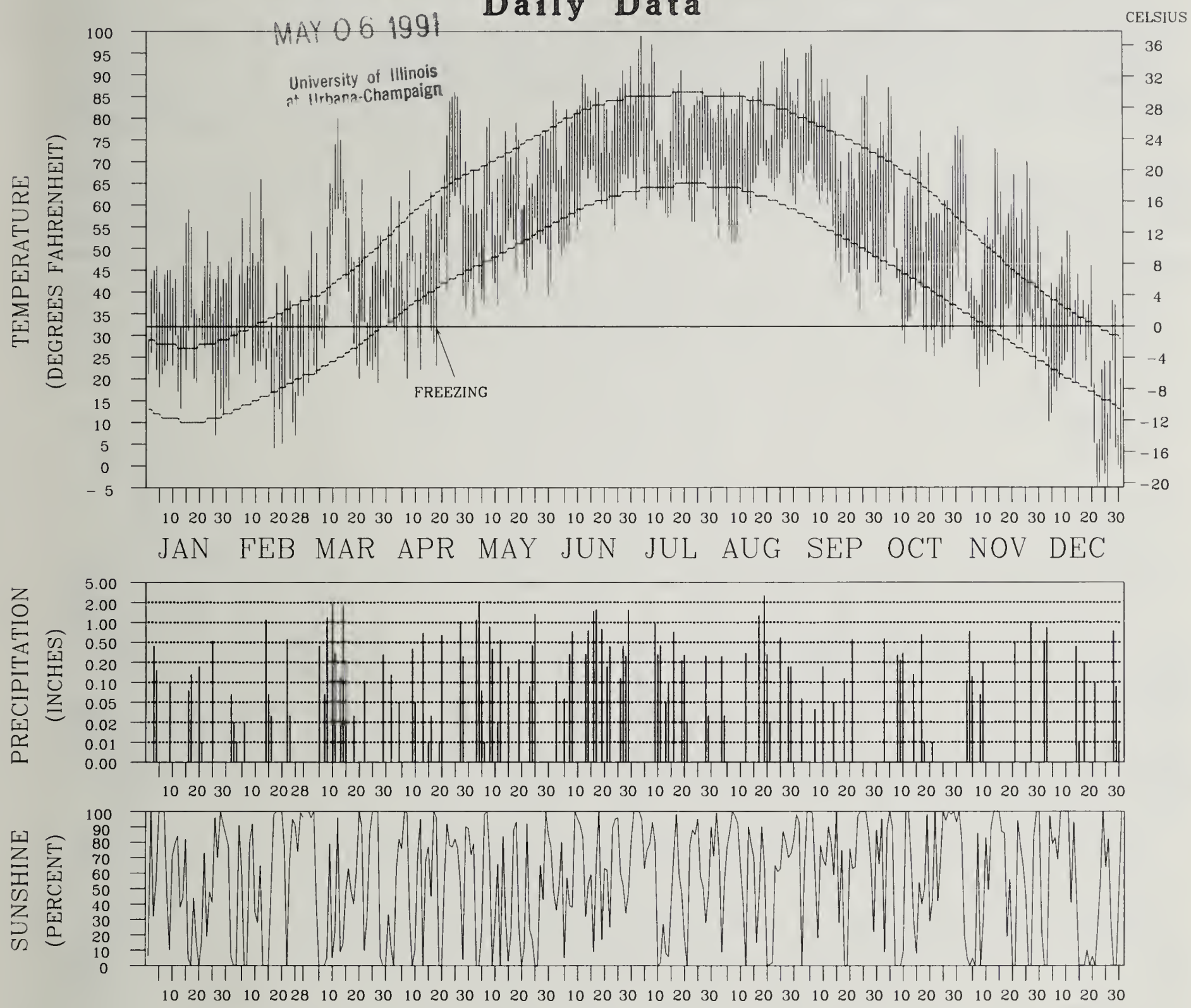
at Urbana-Champaign

Daily Data



TEMPERATURE DEPICTS NORMAL MAXIMUM, NORMAL MINIMUM AND ACTUAL DAILY HIGH AND LOW VALUES (FAHRENHEIT)
PRECIPITATION IS MEASURED IN INCHES, SCALE IS NON-LINEAR
SUNSHINE IS PERCENT OF THE POSSIBLE SUNSHINE

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER, ASHEVILLE, NORTH CAROLINA, 28801

Kenneth D Wadlen
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

noaa
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE
NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

METEOROLOGICAL DATA FOR 1990

MOLINE, ILLINOIS

LATITUDE: 41°27' N LONGITUDE: 90°31' W ELEVATION: FT. GRND 582 BARO 605 TIME ZONE: CENTRAL W8AN: 14923

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:													
Averages													
-Daily Maximum	42.5	41.0	51.7	60.4	67.3	81.5	83.6	83.7	78.5	64.7	55.4	33.2	62.0
-Daily Minimum	22.9	21.6	33.9	39.6	47.2	61.1	64.7	63.7	55.3	38.6	33.0	15.9	41.5
-Monthly	32.7	31.3	42.8	50.0	57.3	71.3	74.2	73.7	66.9	51.7	44.2	24.6	51.7
-Monthly Dewpt.	25.8	23.4	32.3	37.9	47.6	61.5	64.0	64.6	57.1	40.4	34.2	18.9	42.3
Extremes													
-Highest	59	66	80	86	80	92	99	96	97	87	76	54	99
-Date	16	12	12	25	8	30	4	27	6	5	2	11	JUL 4
-Lowest	7	4	19	20	34	48	56	51	36	25	18	-5	-5
-Date	26	17	27	7	2	4	24	8	24	22	8	26	DEC 26
DEGREE DAYS 8ASE 65 °F:													
Heating	995	937	691	483	241	18	2	0	97	422	622	1248	5756
Cooling	0	0	10	40	8	216	294	280	159	18	3	0	1028
% OF POSSIBLE SUNSHINE	56	54	48	58	45	59	60	62	68	63	52	47	56
AVG. SKY COVER (tenths)													
Sunrise - Sunset	5.5	6.4	6.5	6.1	6.9	6.5	6.1	5.5	4.5	4.8	6.5	6.5	6.0
Midnight - Midnight	5.1	5.5	6.3	5.7	6.4	6.0	5.7	4.9	4.0	4.2	5.5	6.0	5.4
NUM8ER OF DAYS:													
Sunrise to Sunset													
-Clear	9	7	7	7	6	5	9	11	13	14	9	9	106
-Partly Cloudy	11	6	7	10	6	12	9	14	10	7	4	3	99
-Cloudy	11	15	17	13	19	13	13	6	7	10	17	19	160
Precipitation .01 inches or more	8	9	11	11	13	15	11	10	6	8	7	9	118
Snow,Ice pellets 1.0 inches or more	1	1	0	0	0	0	0	0	0	0	0	3	5
Thunderstorms	2	0	3	3	8	16	8	7	5	2	1	0	55
Heavy Fog, visibility 1/4 mile or less	0	1	1	3	3	1	0	1	2	1	1	1	15
Temperature °F													
-Maximum													
90° and above	0	0	0	0	0	3	5	5	4	0	0	0	17
32° and below	3	6	0	0	0	0	0	0	0	0	0	10	19
-Minimum													
32° and below	29	27	16	10	0	0	0	0	0	11	16	29	138
0° and below	0	0	0	0	0	0	0	0	0	0	0	6	6
AVG. STATION PRESS. (mb)	992.9	998.0	998.3	995.3	992.2	991.9	995.6	996.3	995.9	995.3	995.9	998.3	995.6
RELATIVE HUMIDITY (%)													
Hour 00	79	80	77	74	80	83	83	88	85	77	76	82	80
Hour 06 (Local Time)	85	84	80	82	83	85	85	91	90	79	81	83	84
Hour 12 (Local Time)	68	64	61	56	62	63	61	62	54	54	55	72	61
Hour 18 (Local Time)	75	71	61	56	64	61	62	67	69	64	67	77	66
PRECIPITATION (inches):													
Water Equivalent													
-Total	1.66	1.99	6.68	3.50	7.68	9.59	3.56	6.42	1.04	2.35	2.87	3.07	50.41
-Greatest (24 hrs)	0.61	1.16	2.05	1.37	3.23	3.21	1.07	3.42	0.59	0.71	1.05	1.42	3.42
-Date	3- 4	14-15	10-11	27-28	3- 4	16-17	9-10	19-20	21	17-18	27	2- 3	AUG 19-20
Snow,Ice pellets													
-Total	6.3	10.3	T	T	0.0	T	0.0	0.0	0.0	0.0	T	7.5	24.1
-Greatest (24 hrs)	6.1	8.9	T	T	0.0	T	0.0	0.0	0.0	0.0	T	5.5	8.9
-Date	25	14-15	19	2		27					9	2- 3	FE8 14-15
WIND:													
Resultant													
-Direction (!!)	241	269	218	247	176	216	169	164	244	223	229	267	231
-Speed (mph)	5.6	1.9	2.4	4.8	0.4	4.2	1.3	1.7	1.2	3.5	4.3	3.2	2.6
Average Speed (mph)	12.1	11.9	13.4	12.4	10.7	10.0	7.7	6.4	6.7	9.8	11.0	10.7	10.2
Fastest Obs. 1 Min.													
-Direction (!!)	29	31	19	22	26	27	18	28	31	25	29	07	29
-Speed (mph)	40	32	39	29	37	35	21	25	23	30	32	36	40
-Date	11	24	15	27	17	3	28	29	22	17	23	3	JAN 11
Peak Gust													
-Direction (!!)	W	NW	SW	NW	W	W	N	W	W	W	W	E	W
-Speed (mph)	59	54	58	48	54	59	36	39	38	51	45	51	59
-Date	11	24	15	1	17	3	4	29	14	17	23	3	JUN 3

(!!) See Reference Notes on Page 68

NORMALS, MEANS, AND EXTREMES

MOLINE, ILLINOIS

LATITUDE: 41°27'N LONGITUDE: 90°31' W ELEVATION: FT. GRND 582 BARO 605 TIME ZONE: CENTRAL WBAN: 14923

	(a)	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:														
Normals														
-Daily Maximum		28.0	33.7	44.8	61.1	72.5	82.1	85.4	83.6	76.2	64.8	48.0	34.3	59.5
-Daily Minimum		11.0	16.4	26.5	39.6	50.1	59.9	64.3	62.1	53.2	42.1	30.0	18.4	39.5
-Monthly		19.5	25.1	35.7	50.4	61.3	71.0	74.9	72.9	64.7	53.5	39.0	26.4	49.5
Extremes														
-Record Highest	58	69	71	88	93	104	104	105	106	100	92	80	69	106
-Year		1989	1976	1986	1986	1934	1988	1940	1936	1939	1963	1933	1970	AUG 1936
-Record Lowest	58	-27	-25	-19	7	26	39	46	40	24	16	-9	-24	-27
-Year		1979	1979	1960	1982	1966	1972	1971	1986	1942	1988	1976	1989	JAN 1979
NORMAL DEGREE DAYS:														
Heating (base 65°F)		1411	1117	908	438	177	20	0	5	75	370	780	1197	6498
Cooling (base 65°F)		0	0	0	0	62	200	307	250	66	14	0	0	899
% OF POSSIBLE SUNSHINE	47	48	50	50	53	57	62	68	66	62	58	42	41	55
MEAN SKY COVER (tenths)														
Sunrise - Sunset	48	6.5	6.4	6.8	6.5	6.2	6.0	5.3	5.3	5.2	5.3	6.7	6.8	6.1
MEAN NUMBER OF DAYS:														
Sunrise to Sunset														
-Clear	57	7.9	7.2	6.4	6.7	7.5	7.3	10.2	10.3	11.7	11.7	7.4	7.0	101.4
-Partly Cloudy	57	7.1	6.5	7.9	8.7	9.2	10.6	11.8	10.9	7.9	7.7	6.8	6.2	101.1
-Cloudy	57	16.1	14.6	16.7	14.6	14.2	12.1	9.0	9.8	10.4	11.7	15.9	17.8	162.8
Precipitation .01 inches or more	58	9.0	8.0	11.0	10.9	11.9	10.2	9.5	8.9	8.7	7.7	8.4	9.3	113.3
Snow, Ice pellets 1.0 inches or more	58	2.6	2.1	1.8	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.7	2.3	9.7
Thunderstorms	57	0.3	0.5	2.1	4.4	6.8	8.3	8.4	7.1	4.4	2.4	1.2	0.8	46.8
Heavy Fog Visibility 1/4 mile or less	56	2.2	1.9	1.9	0.8	0.8	0.6	0.7	2.0	1.6	1.9	1.2	1.8	17.5
Temperature °F														
-Maximum														
90° and above	30	0.0	0.0	0.0	0.1	1.3	5.3	8.9	6.0	1.8	0.1	0.0	0.0	23.4
32° and below	30	18.1	12.8	3.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	2.0	13.1	49.7
-Minimum														
32° and below	30	29.5	25.5	20.8	7.4	0.6	0.0	0.0	0.0	0.2	5.9	18.2	27.4	135.5
0° and below	30	8.3	4.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.9	17.0
AVG. STATION PRESS. (mb)	18	997.4	997.5	994.2	993.0	992.4	992.8	994.4	995.1	995.8	996.5	995.7	997.2	995.2
RELATIVE HUMIDITY (%)														
Hour 00 (Local Time)	30	72	74	74	72	75	77	82	84	83	76	75	77	77
Hour 06 (Local Time)	30	74	75	78	78	80	80	85	89	88	81	79	78	80
Hour 12 (Local Time)	30	65	63	60	54	53	53	57	58	57	54	62	69	59
Hour 18 (Local Time)	30	69	66	62	54	52	53	58	62	66	63	69	73	62
PRECIPITATION (inches):														
Water Equivalent														
-Normal		1.64	1.30	2.77	3.97	4.21	4.32	4.88	3.76	3.74	2.70	1.96	1.92	37.17
-Maximum Monthly	61	4.39	2.80	7.43	11.30	11.43	9.59	11.39	15.23	14.18	9.41	6.47	4.99	15.23
-Year		1974	1985	1973	1973	1974	1990	1969	1987	1970	1941	1934	1982	AUG 1987
-Minimum Monthly	61	0.31	0.17	0.31	0.68	0.55	1.02	1.02	0.35	0.02	0.01	0.29	0.23	0.01
-Year		1961	1933	1958	1946	1928	1963	1955	1971	1979	1964	1933	1929	OCT 1964
-Maximum in 24 hrs	61	2.07	1.90	2.42	5.81	3.68	5.02	5.41	5.13	6.29	4.89	2.73	3.38	6.29
-Year		1960	1948	1985	1973	1970	1967	1963	1987	1961	1954	1961	1942	SEP 1961
Snow, Ice pellets														
-Maximum Monthly	59	26.7	19.3	19.8	13.0	0.3	T	0.0	0.0	0.1	6.6	15.6	21.7	26.7
-Year		1979	1975	1972	1982	1935	1990			1942	1967	1974	1978	JAN 1979
-Maximum in 24 hrs	57	16.4	10.1	11.0	8.2	0.3	T	0.0	0.0	0.1	6.5	8.5	11.4	16.4
-Year		1971	1975	1972	1970	1935	1990			1942	1967	1975	1987	JAN 1971
WIND:														
Mean Speed (mph)	47	11.0	10.9	12.1	12.1	10.4	9.2	7.7	7.3	8.2	9.3	10.9	10.7	10.0
Prevailing Direction through 1963		WNW	WNW	WNW	NW	E	S	E	E	S	S	WNW	WNW	WNW
Fastest Mile														
-Direction (!!!)	60	SW	NW	SW	SW	SW	SW	W	N	NW	SW	W	SW	SW
-Speed (MPH)	60	56	58	66	73	68	77	65	63	66	56	60	61	77
-Year		1946	1948	1954	1947	1955	1947	1953	1987	1945	1949	1952	1947	JUN 1947
Peak Gust														
-Direction (!!!)	7	W	NW	SW	SW	NW	W	NW	N	SW	SW	W	NW	N
-Speed (mph)	7	59	54	58	69	60	59	52	81	49	61	52	56	81
-Date		1990	1990	1990	1984	1988	1990	1984	1987	1988	1984	1988	1985	AUG 1987

(!!!) See Reference Notes on Page 68.

PRECIPITATION (inches)

MOLINE, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1961	0.31	1.20	4.48	2.19	1.98	3.69	7.63	2.37	11.00	4.53	4.94	1.58	45.90
1962	2.08	1.84	2.42	2.44	6.10	1.48	6.73	1.95	2.90	4.15	1.21	0.55	33.85
1963	0.91	0.37	3.29	4.24	2.36	1.02	8.78	4.02	2.38	0.63	1.84	0.94	30.78
1964	1.59	0.73	4.02	6.37	2.68	3.89	5.31	2.41	3.99	0.01	3.40	1.27	35.67
1965	4.08	0.97	2.52	7.92	4.04	2.07	4.78	9.31	8.27	0.88	1.93	2.82	49.59
1966	2.01	0.89	0.85	3.96	6.39	4.25	7.74	0.77	2.80	4.38	1.12	2.52	37.68
1967	2.00	1.11	1.68	4.91	1.70	8.15	4.15	3.62	4.99	6.23	2.26	1.56	42.36
1968	0.80	0.32	1.96	3.57	2.59	3.70	3.91	2.16	5.70	1.09	3.29	2.76	31.85
1969	3.28	0.21	2.25	3.11	3.40	6.97	11.39	2.00	2.50	4.63	0.53	1.52	41.79
1970	0.54	0.57	2.62	4.66	11.07	3.25	6.27	3.61	14.18	1.75	1.25	1.95	51.72
1971	1.79	1.57	1.99	1.86	3.14	2.36	11.22	0.35	4.54	2.64	2.21	4.77	38.44
1972	1.19	1.24	3.73	5.19	4.24	8.66	3.79	8.20	3.29	2.39	2.75	1.98	46.65
1973	2.53	1.94	7.43	11.30	6.96	6.58	2.63	2.30	6.74	3.06	1.15	3.74	56.36
1974	4.39	1.57	2.94	5.08	11.43	8.83	1.73	3.37	1.08	1.99	2.59	1.83	46.83
1975	1.50	1.75	3.30	2.88	3.23	3.50	2.71	3.23	1.99	0.90	2.98	0.98	28.95
1976	0.88	1.11	3.67	4.21	4.13	2.02	3.34	0.60	1.89	2.13	0.65	0.34	24.97
1977	0.87	0.62	4.61	1.57	2.66	5.18	6.04	6.98	4.80	4.09	2.78	1.76	41.96
1978	0.59	0.67	0.78	3.02	4.65	3.50	3.24	2.47	3.91	1.95	3.32	3.17	31.27
1979	2.72	1.02	2.77	4.01	2.86	2.85	4.40	6.94	0.02	2.51	2.13	2.27	34.50
1980	1.31	1.55	1.74	2.34	4.01	4.97	3.46	9.09	2.94	1.63	0.70	2.75	36.49
1981	0.32	2.45	0.69	4.48	1.48	5.51	3.07	6.90	4.20	4.42	2.42	0.72	36.66
1982	2.08	0.45	3.85	3.33	5.03	3.61	8.83	2.89	1.94	3.38	3.64	4.99	44.02
1983	0.55	1.50	2.88	4.88	2.06	5.21	2.79	0.96	5.30	2.36	5.78	2.55	36.82
1984	0.84	0.79	3.45	4.31	4.97	3.75	4.63	1.31	2.32	6.60	2.91	3.51	39.39
1985	1.04	2.80	4.71	2.14	3.46	2.26	3.33	2.76	1.71	8.54	6.35	2.21	41.31
1986	0.38	2.53	1.35	3.15	5.54	5.10	6.34	3.24	5.63	4.23	1.03	1.95	40.47
1987	0.91	0.89	2.57	1.49	3.35	1.54	1.91	15.23	1.11	0.79	3.33	4.46	37.58
1988	1.74	1.08	2.36	1.36	2.32	1.16	1.79	4.89	1.97	2.37	3.14	1.57	25.75
1989	1.21	1.21	1.85	3.62	3.42	3.31	3.10	6.17	5.42	1.18	0.71	0.73	31.93
1990	1.66	1.99	6.68	3.50	7.68	9.59	3.56	6.42	1.04	2.35	2.87	3.07	50.41
Record Mean	1.54	1.31	2.67	3.62	4.00	4.36	4.17	3.85	3.62	2.77	2.24	1.86	36.00

See Reference Notes on Page 6B.

AVERAGE TEMPERATURE (deg. F)

MOLINE, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1961	21.1	30.7	39.3	44.3	58.1	71.9	74.2	73.9	66.1	55.4	40.8	23.0	49.9
1962	16.2	23.7	32.6	49.3	67.9	70.6	71.6	72.9	61.7	55.2	39.0	23.2	48.7
1963	9.7	17.9	41.1	52.9	60.0	73.5	74.8	70.8	64.9	64.4	43.1	13.8	48.9
1964	28.4	27.0	34.4	51.5	66.3	72.3	76.6	70.8	65.6	50.7	44.2	24.8	51.1
1965	21.4	25.7	26.9	49.2	65.9	69.6	74.9	71.1	63.5	53.6	40.7	34.5	49.8
1966	14.3	24.8	39.2	47.0	56.3	70.5	77.9	70.6	62.9	52.5	41.7	28.1	48.8
1967	26.0	18.7	39.0	51.6	56.4	70.9	71.4	67.7	62.1	52.1	36.1	28.5	48.4
1968	21.0	22.7	41.9	51.3	57.2	72.1	73.1	73.5	63.1	53.2	37.3	24.5	49.3
1969	17.9	27.9	32.2	51.6	61.7	67.1	75.0	73.7	64.9	51.7	37.9	24.3	48.8
1970	13.1	24.7	33.6	51.8	64.9	70.7	75.7	72.9	65.2	53.9	39.2	28.9	49.5
1971	14.8	25.9	34.7	50.9	58.0	76.6	70.7	71.9	68.7	59.9	40.0	31.6	50.3
1972	18.6	20.7	36.0	48.0	63.0	69.4	74.6	74.0	66.7	50.2	37.3	22.3	48.4
1973	27.1	28.7	45.4	49.7	57.6	72.3	74.9	75.1	65.7	57.3	40.4	23.7	51.5
1974	21.6	26.8	38.5	53.3	58.8	67.5	77.3	70.3	60.4	53.7	40.1	28.6	49.8
1975	24.9	25.0	30.6	45.1	63.8	72.3	75.0	75.1	60.9	56.2	45.0	30.3	50.4
1976	19.1	35.2	41.2	52.9	57.5	70.5	75.8	71.8	63.0	46.8	30.1	19.6	48.6
1977	8.2	27.1	43.6	56.6	68.9	70.0	77.5	71.0	65.5	51.2	38.7	21.7	50.0
1978	12.4	14.1	33.0	50.8	60.2	71.0	74.0	73.2	69.2	51.5	39.2	22.7	47.6
1979	6.3	13.2	36.3	47.4	61.9	71.2	73.5	72.0	64.3	52.1	37.0	31.7	47.2
1980	23.4	19.2	33.5	49.1	62.7	69.2	77.6	75.8	65.7	48.6	39.7	26.6	49.3
1981	23.4	27.1	39.4	54.3	57.5	71.0	73.3	71.2	63.5	49.9	41.1	25.3	49.7
1982	10.6	21.4	34.6	44.7	66.1	66.2	75.4	71.3	64.2	54.7	39.2	35.3	48.7
1983	26.9	32.0	38.9	45.5	57.8	72.9	79.4	79.6	65.6	53.1	42.9	14.0	50.7
1984	19.6	34.5	31.2	49.1	58.2	73.6	73.1	75.2	62.9	55.1	39.3	31.1	50.2
1985	14.3	21.8	42.5	57.1	64.9	69.4	74.2	69.7	66.1	53.6	35.2	14.9	48.6
1986	25.1	22.9	42.5	54.6	63.0	71.7	77.6	68.3	67.3	53.4	34.8	30.0	50.9
1987	25.2	34.4	42.2	52.6	66.8	74.6	79.4	72.9	64.4	47.4	44.0	31.0	52.9
1988	20.2	21.7	38.7	50.6	64.1	73.1	78.2	77.8	67.0	47.3	40.3	29.0	50.7
1989	32.7	17.4	37.0	49.9	58.8	69.2	76.2	72.2	61.9	54.6	38.6	15.6	48.7
1990	32.7	31.3	42.8	50.0	57.3	71.3	74.2	73.7	66.9	51.7	44.2	24.6	51.7
Record Mean	21.6	26.0	36.5	50.3	61.2	71.2	75.3	73.1	65.1	53.5	39.1	26.4	50.0
Max	30.1	34.7	45.8	61.2	72.4	82.3	86.3	84.1	76.6	65.0	48.2	34.4	60.1
Min	13.0	17.3	27.3	39.4	50.0	60.1	64.3	62.1	53.5	42.1	30.0	18.4	39.8

See Reference Notes on Page 6B.

HEATING DEGREE DAYS Base 65 deg. F MOLINE, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1961-62	1	0	121	309	722	1297	1510	1150	999	481	78	22	6690
1962-63	8	1	149	342	774	1292	1717	1315	734	370	186	15	6903
1963-64	0	16	83	108	653	1585	1129	1097	942	405	71	20	6109
1964-65	3	24	100	437	624	1241	1344	1096	1174	471	86	3	6603
1965-66	0	21	115	363	722	939	1568	1119	794	533	287	31	6492
1966-67	0	6	116	386	695	1137	1202	1289	802	404	305	10	6352
1967-68	21	33	136	424	860	1127	1354	1221	711	409	248	18	6562
1968-69	8	15	96	404	826	1247	1458	1032	1010	398	172	57	6723
1969-70	0	0	80	445	805	1253	1607	1120	967	419	118	21	6835
1970-71	0	2	92	350	764	1111	1556	1088	931	425	242	0	6561
1971-72	17	3	94	195	740	1026	1434	1280	893	504	155	25	6366
1972-73	8	7	80	459	824	1319	1170	1013	598	452	223	1	6154
1973-74	0	0	78	258	733	1274	1338	1061	812	360	235	32	6181
1974-75	0	8	180	349	739	1122	1235	1114	1058	593	117	14	6529
1975-76	9	0	162	297	594	1072	1413	855	731	385	235	2	5755
1976-77	0	5	123	569	1038	1403	1755	1059	656	286	54	15	6963
1977-78	0	5	50	420	780	1337	1625	1417	986	423	229	13	7285
1978-79	1	4	59	415	767	1305	1820	1445	884	521	172	12	7405
1979-80	5	22	95	415	831	1027	1280	1324	966	481	129	27	6602
1980-81	0	1	77	503	755	1180	1281	1055	783	322	253	3	6213
1981-82	12	9	91	459	710	1226	1682	1214	936	604	62	35	7040
1982-83	0	14	110	333	765	916	1175	917	802	578	228	17	5855
1983-84	1	0	110	377	654	1578	1406	880	1039	482	225	2	6754
1984-85	3	4	171	303	761	1042	1568	1203	692	293	66	25	6131
1985-86	0	4	133	347	888	1546	1231	1174	705	338	104	9	6479
1986-87	0	30	55	358	898	1078	1227	850	701	385	101	4	5687
1987-88	0	23	84	540	627	1046	1384	1250	807	427	90	15	6293
1988-89	1	9	45	544	736	1109	998	1326	863	461	240	28	6360
1989-90	0	4	138	334	785	1527	995	937	691	483	241	18	6153
1990-91	2	0	97	422	622	1248							

See Reference Notes on Page 6B.

COOLING DEGREE DAYS Base 65 deg. F MOLINE, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL
1969	0	0	0	1	77	130	320	276	86	41	0	0	931
1970	0	0	0	32	119	198	341	256	105	15	0	0	1066
1971	0	0	0	9	32	355	203	225	212	44	0	0	1080
1972	0	0	0	3	102	165	312	294	138	6	0	0	1020
1973	0	0	0	2	2	226	312	323	103	27	0	0	995
1974	0	0	0	17	50	113	389	180	45	3	0	0	797
1975	0	0	0	1	85	241	325	319	44	29	0	0	1044
1976	0	0	0	26	12	175	341	221	72	13	0	0	860
1977	0	0	0	44	182	173	397	199	73	0	0	0	1068
1978	0	0	1	0	87	202	288	267	195	5	0	0	1045
1979	0	0	0	0	83	206	272	245	79	22	0	0	907
1980	0	0	0	11	65	158	395	343	107	1	0	0	1080
1981	0	0	0	8	27	191	275	209	50	0	0	0	760
1982	0	0	0	0	102	78	327	215	95	20	0	0	837
1983	0	0	0	1	12	260	453	459	138	14	0	0	1337
1984	0	0	0	9	21	268	261	327	116	3	0	0	1005
1985	0	0	0	64	71	165	292	154	172	0	0	0	918
1986	0	0	12	31	48	216	396	143	133	4	0	0	983
1987	0	0	0	20	162	298	453	277	71	0	3	0	1284
1988	0	0	0	0	69	263	416	410	112	3	0	0	1273
1989	0	0	4	13	53	159	356	236	52	20	0	0	893
1990	0	0	10	40	8	216	294	280	159	18	3	0	1028

See Reference Notes on Page 6B.

SNOWFALL (inches)

MOLINE, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1961-62	0.0	0.0	0.0	0.0	T	13.6	11.2	15.8	7.1	0.2	0.0	0.0	47.9
1962-63	0.0	0.0	0.0	0.2	T	3.1	14.7	5.8	7.3	0.0	0.0	0.0	31.1
1963-64	0.0	0.0	0.0	0.0	T	9.7	5.3	5.5	13.9	T	0.0	0.0	34.4
1964-65	0.0	0.0	0.0	0.0	2.1	11.7	10.2	7.4	16.2	0.0	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.3	5.7	6.0	0.8	0.7	0.1	T	0.0	13.6
1966-67	0.0	0.0	0.0	0.0	T	7.2	14.4	13.2	2.2	1.1	0.0	0.0	38.1
1967-68	0.0	0.0	0.0	6.6	0.3	3.2	8.6	2.8	1.1	T	0.0	0.0	22.6
1968-69	0.0	0.0	0.0	T	5.9	5.4	6.2	0.9	5.6	0.0	T	0.0	24.0
1969-70	0.0	0.0	0.0	0.0	1.5	15.4	7.2	6.1	12.7	8.3	0.0	0.0	51.2
1970-71	0.0	0.0	0.0	0.0	0.2	2.2	17.7	2.6	7.8	T	0.0	0.0	30.5
1971-72	0.0	0.0	0.0	0.0	5.9	0.3	11.8	13.7	19.8	2.6	0.0	0.0	54.1
1972-73	0.0	0.0	0.0	2.0	6.7	6.6	0.4	8.6	0.5	0.9	0.0	0.0	25.7
1973-74	0.0	0.0	0.0	0.0	T	11.4	12.7	7.4	3.0	0.6	0.0	0.0	35.1
1974-75	0.0	0.0	0.0	0.0	15.6	8.8	7.6	19.3	12.2	6.2	0.0	0.0	69.7
1975-76	0.0	0.0	0.0	0.0	9.9	2.5	8.6	0.1	0.6	0.0	T	0.0	21.7
1976-77	0.0	0.0	0.0	0.0	7.7	4.1	12.3	2.5	10.8	1.0	0.0	0.0	38.4
1977-78	0.0	0.0	0.0	0.0	4.8	20.8	6.1	6.8	6.5	T	0.0	0.0	45.0
1978-79	0.0	0.0	0.0	0.0	7.1	21.7	26.7	4.5	3.4	0.6	0.0	0.0	64.0
1979-80	0.0	0.0	0.0	T	1.9	0.8	4.2	13.1	7.5	9.5	0.0	0.0	37.0
1980-81	0.0	0.0	0.0	2.4	1.1	4.5	5.3	5.6	T	0.0	0.0	0.0	18.9
1981-82	0.0	0.0	0.0	T	3.3	4.3	13.6	4.5	6.6	13.0	0.0	0.0	45.3
1982-83	0.0	0.0	0.0	0.0	T	0.5	4.7	6.2	12.7	0.7	0.0	0.0	24.8
1983-84	0.0	0.0	0.0	T	0.9	18.9	9.9	1.9	13.6	0.1	0.0	0.0	45.3
1984-85	0.0	0.0	0.0	0.0	T	9.3	13.4	7.5	0.2	T	0.0	0.0	30.4
1985-86	0.0	0.0	0.0	0.0	3.1	11.5	3.7	7.8	0.2	0.4	0.0	0.0	26.7
1986-87	0.0	0.0	0.0	0.0	2.2	0.2	9.1	T	0.1	0.0	0.0	0.0	11.6
1987-88	0.0	0.0	0.0	T	0.6	15.9	2.7	16.4	0.5	0.0	0.0	0.0	36.1
1988-89	0.0	0.0	0.0	T	1.0	2.5	T	13.8	0.4	T	T	0.0	17.7
1989-90	0.0	0.0	0.0	T	0.1	8.2	6.3	10.3	T	T	0.0	T	24.9
1990-91	0.0	0.0	0.0	0.0	T	7.5							
Record Mean	0.0	0.0	T	0.2	2.2	7.2	7.8	6.1	6.0	1.1	T	T	30.5

See Reference Notes on Page 6B.

REFERENCE NOTES

MOLINE, ILLINOIS

GENERAL
T - TRACE AMOUNT.
BLANK ENTRIES DENOTE MISSING/UNREPORTED DATA.
# INDICATES A STATION OR INSTRUMENT RELOCATION.
SEE STATION LOCATION TABLE ON PAGE B.

SPECIFIC
PAGE 2
PM - INCLUDES LAST DAY OF PREVIOUS MONTH

PAGE 3
(a) - LENGTH OF RECORD IN YEARS, ALTHOUGH INDIVIDUAL MONTHS MAY BE MISSING.
0.* OR * THE VALUE IS BETWEEN 0.0 AND 0.05
NORMALS - BASED ON THE 1951-1980 RECORD PERIOD.
EXTREMES - DATES ARE THE MOST RECENT OCCURRENCE
WIND DIR.- NUMERALS SHOW TENS OF DEGRESS CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM.
RESULTANT DIRECTIONS ARE GIVEN TO WHOLE DEGREES.

PAGE 4B
MAX AND MIN ARE LONG TERM MEAN DAILY MAXIMUM AND MEAN DAILY MINIMUM TEMPERATURES.

EXCEPTIONS

PAGES 4A, 4B, 6A
RECORD MEANS ARE THROUGH THE CURRENT YEAR, BEGINNING IN 1930 FOR TEMPERATURE
1927 FOR PRECIPITATION
1933 FOR SNOWFALL

MOLINE, ILLINOIS

The locality is in the heart of the Corn Belt. Agricultural crops include many important staple products in addition to corn. Cattle, hogs, horses, and poultry produced in Iowa and Illinois rank high in the nation. Close to the Mississippi River there is large scale truck gardening and considerable dairying. Field production of grains and livestock attains greater development farther away from the large streams, where the countryside is rolling prairie. Damaging droughts are not common. This, together with the variety of agricultural products, has led to designating the section as the Bread Basket of America.

The climate is favorable for many industries as evidenced by the large number and variety of manufacturing and other enterprises which have located and developed in the community. Among these are some of the largest producers of agricultural machinery in the world.

This area has a temperate continental climate, with a wide temperature range throughout the year. There are some intensely hot, unusually humid, periods in summer and severely cold periods in winter. Maxima of 90 degrees or more have occurred in summer as frequently as 55 days and zero or lower readings have occurred during every winter.

Freezing temperatures have occurred as late in spring as late May and as early in autumn as late September. Precipitation is usually well distributed throughout the year with the greatest amounts falling during the 177-day average crop growing season. Substantial weather changes frequently occur at three or four day intervals, as a direct result of proximity to some of the most important storm tracks.

STATION LOCATION

MOLINE, ILLINOIS

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE SEA LEVEL: GROUND TEMPERATURE SITE	ELEVATION ABOVE GROUND: WIND INSTRUMENTS	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET RAIN GAGE	WEIGHING RAIN GAGE	8 INCH RAIN GAGE	HYGROTHERMOMETER	AUTOMATIC OBSERVING	EQUIPMENT *	REMARKS
NE Corner, Moline AP 4.5 miles S of Moline Post Office	10/1/26	12/27/39	NA	41°27'	90°31'	589	53	3	3				3				
Administration Building Quad City Airport	12/27/39	4/3/61	1200 ft. W	41°27'	90°31'	589 h582	62 f25	5 b36 c5 d36	5 a36 c5 d36	Unk		4 e5	15	g4			a - Moved to roof site 12/1/54. b - Moved to roof site 5/31/55. c - Moved to field site 6/7/56. d - Moved to roof site 4/16/58. e - Effective 4/16/58. f - Moved to field site 11/13/58. g - Telepsychrometer (5') 6/7/56-3/1/60. Hygro. comm. 3/1/60. h - Effective 3/1/60.
Terminal Building Quad City Airport	4/4/61	Present	200 ft. SE	41°27'	90°31'	582	i25	17	17	27	NA k16	i5 j16	15	i4 m4	NA		i - Not moved 4/4/61. j - Effective 7/22/63. k - Added 6/1/64. m - Type change 6/27/85.

* Type
M = AMOS
T = AUTOB
S = ASOS
W = AWOS

SUBSCRIPTION:
Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801.
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1989 LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

MOLINE,
ILLINOIS

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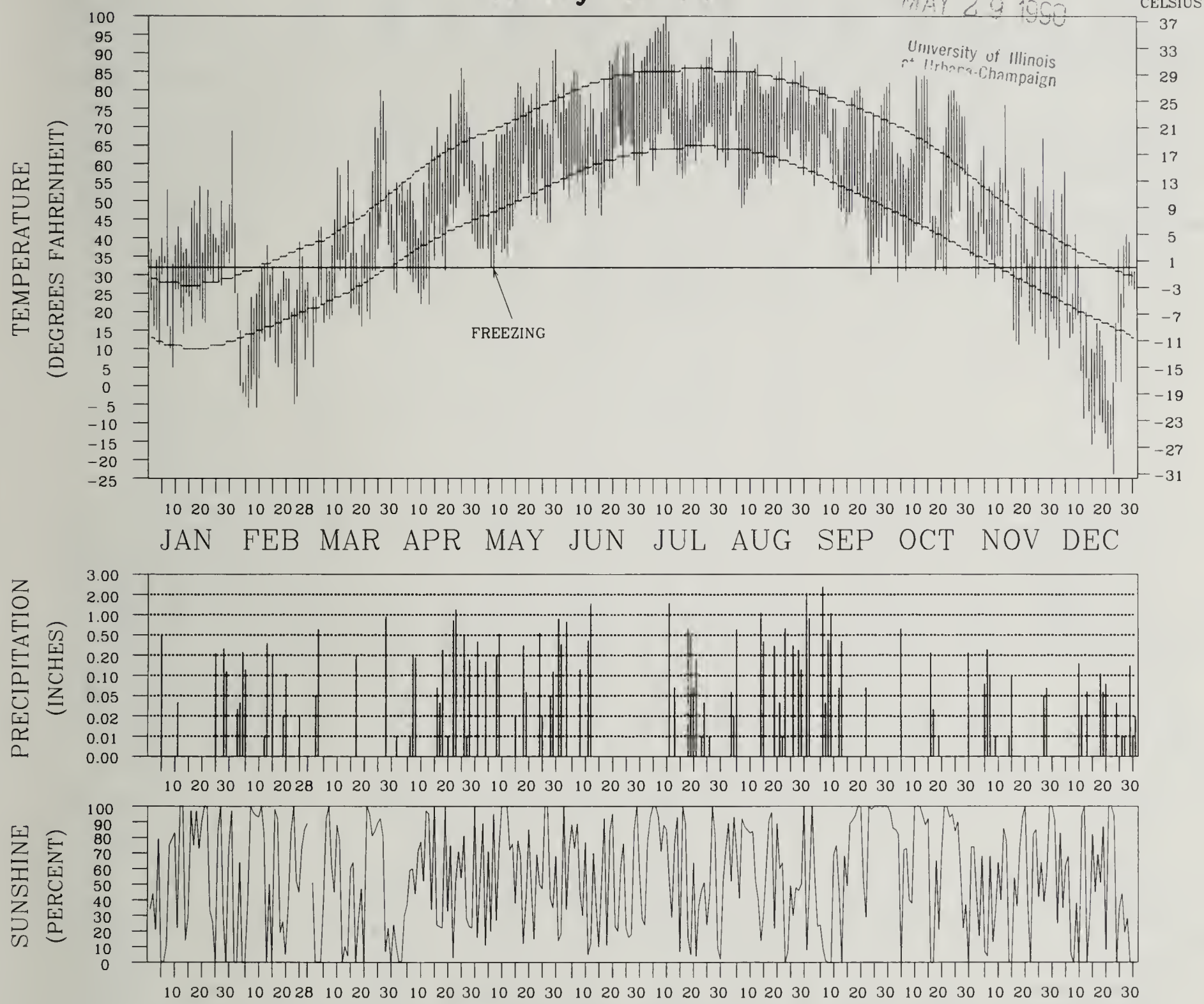
Daily Data



TEMPERATURE DEPICTS NORMAL MAXIMUM, NORMAL MINIMUM AND ACTUAL DAILY HIGH AND LOW VALUES (FAHRENHEIT)
PRECIPITATION IS MEASURED IN INCHES, SCALE IS NON-LINEAR
SUNSHINE IS PERCENT OF THE POSSIBLE SUNSHINE

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER, ASHEVILLE, NORTH CAROLINA, 28801

Kenneth D. Hadley
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

noaa
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE
NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

METEOROLOGICAL DATA FOR 1989

MOLINE, ILLINOIS

LATITUDE: 41°27' N LONGITUDE: 90°31' W ELEVATION: FT. GRND 582 BARO 605 TIME ZONE: CENTRAL WBAN: 14923

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:													
Averages													
-Daily Maximum	41.4	25.7	46.6	61.1	70.7	80.8	87.5	83.4	74.0	67.1	49.0	24.6	59.3
-Daily Minimum	23.9	9.1	27.3	38.6	46.8	57.5	64.9	61.0	49.8	42.0	28.1	6.6	38.0
-Monthly	32.7	17.4	37.0	49.9	58.8	69.2	76.2	72.2	61.9	54.6	38.6	15.6	48.7
-Monthly Dewpt.	25.0	10.2	28.0	37.8	46.2	57.5	64.5	63.1	51.7	41.3	26.9	8.4	38.4
Extremes													
-Highest	69	44	80	86	91	93	100	96	81	84	76	58	100
-Date	31	1	26	25	30	26	10	4	30	14	13	5	JUL 10
-Lowest	5	-6	5	22	29	46	56	48	30	28	7	-24	-24
-Date	9	9	1	13	7	16	16	7	24	4	29	23	DEC 23
DEGREE DAYS BASE 65 °F:													
Heating	998	1326	863	461	240	28	0	4	138	334	785	1527	6704
Cooling	0	0	4	13	53	159	356	236	52	20	0	0	893
% OF POSSIBLE SUNSHINE	57	55	47	49	59	52	56	59	63	67	52	45	55
AVG. SKY COVER (tenths)													
Sunrise - Sunset	5.6	6.2	7.5	6.9	5.7	5.7	5.6	5.5	4.1	4.9	6.7	6.5	5.9
Midnight - Midnight	5.1	5.7	6.9	6.4	5.2	5.4	5.3	5.2	3.7	4.6	6.5	6.0	5.5
NUMBER OF DAYS:													
Sunrise to Sunset													
-Clear	9	9	3	5	8	8	9	11	14	12	5	8	101
-Partly Cloudy	9	6	8	10	10	10	8	9	8	9	10	7	104
-Cloudy	13	13	20	15	13	12	14	11	8	10	15	16	160
Precipitation .01 inches or more	5	10	4	13	12	5	9	13	8	5	8	12	104
Snow, Ice pellets 1.0 inches or more	0	4	0	0	0	0	0	0	0	0	0	4	8
Thunderstorms	0	0	2	5	7	6	7	11	5	1	1	0	45
Heavy Fog, visibility 1/4 mile or less	3	0	2	0	0	1	0	1	1	0	0	1	9
Temperature °F													
-Maximum													
90° and above	0	0	0	0	1	5	10	3	0	0	0	0	19
32° and below	2	23	6	0	0	0	0	0	0	0	3	20	54
-Minimum													
32° and below	26	28	22	11	2	0	0	0	1	5	17	31	143
0° and below	0	8	0	0	0	0	0	0	0	0	0	10	18
AVG. STATION PRESS. (mb)	996.3	1004.4	997.6	993.6	993.6	993.6	995.9	994.6	998.3	997.0	992.9	999.7	996.4
RELATIVE HUMIDITY (%)													
Hour 00	78	73	78	70	76	82	83	86	85	74	70	77	78
Hour 06 (Local Time)	80	79	83	80	78	85	87	92	91	80	77	79	83
Hour 12 (Local Time)	66	66	63	56	52	54	55	61	55	50	55	64	58
Hour 18 (Local Time)	73	68	65	55	51	53	57	62	66	60	61	71	62
PRECIPITATION (inches):													
Water Equivalent													
-Total	1.21	1.21	1.85	3.62	3.42	3.31	3.10	6.17	5.42	1.18	0.71	0.73	31.93
-Greatest (24 hrs)	0.52	0.39	0.96	2.12	0.91	1.91	1.58	2.10	3.02	0.66	0.39	0.18	3.02
-Date	5	12-13	28	22-23	31	11-12	11	31	PM- 1	5	6- 7	10-11	SEP PM- 1
Snow, Ice pellets													
-Total	T	13.8	0.4	T	T	0.0	0.0	0.0	0.0	T	0.1	8.2	22.5
-Greatest (24 hrs)	T	4.0	0.4	T	T	0.0	0.0	0.0	0.0	T	0.1	2.1	4.0
-Date	7	12-13	2	8	6					20	28	20	FEB 12-13
WIND:													
Resultant													
-Direction (!!!)	240	300	064	261	205	246	082	159	051	251	259	277	261
-Speed (mph)	6.0	4.8	1.7	0.6	1.2	1.6	1.6	1.2	1.0	2.5	5.8	5.8	1.8
Average Speed (mph)	12.2	11.3	11.3	10.2	9.6	7.1	7.3	6.9	7.0	9.6	12.8	10.7	9.7
Fastest Obs. 1 Min.													
-Direction (!!!)	28	30	27	35	29	34	21	03	36	21	30	28	28
-Speed (mph)	38	28	35	35	32	32	22	32	29	26	33	35	38
-Date	7	8	14	26	24	26	18	5	22	11	17	2	JAN 7
Peak Gust													
-Direction (!!!)	W	NW	W	N	NW	NW	NW	NE	N	S	W	W	NW
-Speed (mph)	51	44	52	55	56	49	43	49	44	44	51	52	56
-Date	8	8	14	26	24	26	11	5	22	11	9	2	MAY 24

(!!!) See Reference Notes on Page 6B

NORMALS, MEANS, AND EXTREMES

MOLINE, ILLINOIS

LATITUDE: 41°27'N LONGITUDE: 90°31' W ELEVATION: FT. GRND 582 BARO 605 TIME ZONE: CENTRAL WBAN: 14923

	(a)	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:														
Normals														
-Daily Maximum		28.0	33.7	44.8	61.1	72.5	82.1	85.4	83.6	76.2	64.8	48.0	34.3	59.5
-Daily Minimum		11.0	16.4	26.5	39.6	50.1	59.9	64.3	62.1	53.2	42.1	30.0	18.4	39.5
-Monthly		19.5	25.1	35.7	50.4	61.3	71.0	74.9	72.9	64.7	53.5	39.0	26.4	49.5
Extremes														
-Record Highest	57	69	71	88	93	104	104	105	106	100	92	80	69	106
-Year		1989	1976	1986	1986	1934	1988	1940	1936	1939	1963	1933	1970	AUG 1936
-Record Lowest	57	-27	-25	-19	7	26	39	46	40	24	16	-9	-24	-27
-Year		1979	1979	1960	1982	1966	1972	1971	1986	1942	1988	1976	1989	JAN 1979
NORMAL DEGREE DAYS:														
Heating (base 65°F)		1411	1117	908	438	177	20	0	5	75	370	780	1197	6498
Cooling (base 65°F)		0	0	0	0	62	200	307	250	66	14	0	0	899
% OF POSSIBLE SUNSHINE	46	48	49	50	53	57	62	68	66	62	58	42	41	55
MEAN SKY COVER (tenths)														
Sunrise - Sunset	47	6.6	6.4	6.8	6.5	6.2	6.0	5.3	5.3	5.2	5.3	6.7	6.8	6.1
MEAN NUMBER OF DAYS:														
Sunrise to Sunset														
-Clear	56	7.9	7.2	6.4	6.7	7.5	7.4	10.3	10.3	11.7	11.6	7.4	7.0	101.3
-Partly Cloudy	56	7.0	6.5	7.9	8.6	9.3	10.6	11.8	10.8	7.8	7.7	6.8	6.3	101.1
-Cloudy	56	16.1	14.6	16.7	14.7	14.2	12.1	8.9	9.9	10.4	11.7	15.8	17.7	162.8
Precipitation .01 inches or more	57	9.0	8.0	11.0	10.9	11.9	10.1	9.5	8.9	8.7	7.6	8.4	9.3	113.2
Snow, Ice pellets 1.0 inches or more	57	2.6	2.1	1.8	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.7	2.3	9.8
Thunderstorms	56	0.3	0.5	2.1	4.5	6.8	8.2	8.4	7.1	4.4	2.4	1.3	0.8	46.7
Heavy Fog Visibility 1/4 mile or less	55	2.3	2.0	1.9	0.7	0.8	0.6	0.7	2.0	1.6	1.9	1.2	1.8	17.6
Temperature °F														
-Maximum														
90° and above	29	0.0	0.0	0.0	0.1	1.3	5.4	9.0	6.0	1.7	0.1	0.0	0.0	23.7
32° and below	29	18.6	13.0	3.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	2.1	13.2	50.8
-Minimum														
32° and below	29	29.5	25.4	20.9	7.3	0.7	0.0	0.0	0.0	0.2	5.8	18.3	27.3	135.4
0° and below	29	8.6	4.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.8	17.3
AVG. STATION PRESS. (mb)	17	997.6	997.5	993.9	992.9	992.4	992.8	994.3	995.0	995.8	996.6	995.6	997.1	995.1
RELATIVE HUMIDITY (%)														
Hour 00	29	72	73	74	72	75	76	82	84	83	76	75	76	77
Hour 06 (Local Time)	29	73	75	78	78	79	80	85	89	87	81	79	78	80
Hour 12 (Local Time)	29	65	63	60	54	52	52	57	58	57	54	63	69	59
Hour 18 (Local Time)	29	68	66	62	54	52	53	58	62	65	63	69	73	62
PRECIPITATION (inches):														
Water Equivalent														
-Normal		1.64	1.30	2.77	3.97	4.21	4.32	4.88	3.76	3.74	2.70	1.96	1.92	37.17
-Maximum Monthly	60	4.39	2.80	7.43	11.30	11.43	8.83	11.39	15.23	14.18	9.41	6.47	4.99	15.23
-Year		1974	1985	1973	1973	1974	1974	1969	1987	1970	1941	1934	1982	AUG 1987
-Minimum Monthly	60	0.31	0.17	0.31	0.68	0.55	1.02	1.02	0.35	0.02	0.01	0.29	0.23	0.01
-Year		1961	1933	1958	1946	1928	1963	1955	1971	1979	1964	1933	1929	OCT 1964
-Maximum in 24 hrs	60	2.07	1.90	2.42	5.81	3.68	5.02	5.41	5.13	6.29	4.89	2.73	3.38	6.29
-Year		1960	1948	1985	1973	1970	1967	1963	1987	1961	1954	1961	1942	SEP 1961
Snow, Ice pellets														
-Maximum Monthly	58	26.7	19.3	19.8	13.0	0.3	0.0	0.0	0.0	0.1	6.6	15.6	21.7	26.7
-Year		1979	1975	1972	1982	1935				1942	1967	1974	1978	JAN 1979
-Maximum in 24 hrs	56	16.4	10.1	11.0	8.2	0.3	0.0	0.0	0.0	0.1	6.5	8.5	11.4	16.4
-Year		1971	1975	1972	1970	1935				1942	1967	1975	1987	JAN 1971
WIND:														
Mean Speed (mph)	46	11.0	10.9	12.1	12.1	10.3	9.2	7.7	7.3	8.2	9.3	10.9	10.7	10.0
Prevailing Direction through 1963		WNW	WNW	WNW	NW	E	S	E	E	S	S	WNW	WNW	WNW
Fastest Mile														
-Direction (!!!)	60	SW	NW	SW	SW	SW	SW	W	N	NW	SW	W	SW	SW
-Speed (MPH)	60	56	58	66	73	68	77	65	63	66	56	60	61	77
-Year		1946	1948	1954	1947	1955	1947	1953	1987	1945	1949	1952	1947	JUN 1947
Peak Gust														
-Direction (!!!)	6	NW	N	SW	SW	NW	NW	NW	N	SW	SW	W	NW	N
-Speed (mph)	6	54	47	58	69	60	49	52	81	49	61	52	56	81
-Date		1986	1987	1985	1984	1988	1989	1984	1987	1988	1984	1988	1985	AUG 1987

(!!!) See Reference Notes on Page 6B.

PRECIPITATION (inches)

MOLINE, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1960	3.43	2.78	1.28	4.89	3.98	5.40	3.40	3.97	3.42	4.91	1.11	0.88	39.45
1961	0.31	1.20	4.48	2.19	1.98	3.69	7.63	2.37	11.00	4.53	4.94	1.58	45.90
1962	2.08	1.84	2.42	2.44	6.10	1.48	6.73	1.95	2.90	4.15	1.21	0.55	33.85
1963	0.91	0.37	3.29	4.24	2.36	1.02	8.78	4.02	2.38	0.63	1.84	0.94	30.78
1964	1.59	0.73	4.02	6.37	2.68	3.89	5.31	2.41	3.99	0.01	3.40	1.27	35.67
1965	4.08	0.97	2.52	7.92	4.04	2.07	4.78	9.31	8.27	0.88	1.93	2.82	49.59
1966	2.01	0.89	0.85	3.96	6.39	4.25	7.74	0.77	2.80	4.38	1.12	2.52	37.68
1967	2.00	1.11	1.68	4.91	1.70	8.15	4.15	3.62	4.99	6.23	2.26	1.56	42.36
1968	0.80	0.32	1.96	3.57	2.59	3.70	3.91	2.16	5.70	1.09	3.29	2.76	31.85
1969	3.28	0.21	2.25	3.11	3.40	6.97	11.39	2.00	2.50	4.63	0.53	1.52	41.79
1970	0.54	0.57	2.62	4.66	11.07	3.25	6.27	3.61	14.18	1.75	1.25	1.95	51.72
1971	1.79	1.57	1.99	1.86	3.14	2.36	11.22	0.35	4.54	2.64	2.21	4.77	38.44
1972	1.19	1.24	3.73	5.19	4.24	8.66	3.79	8.20	3.29	2.39	2.75	1.98	46.65
1973	2.53	1.94	7.43	11.30	6.96	6.58	2.63	2.30	6.74	3.06	1.15	3.74	56.36
1974	4.39	1.57	2.94	5.08	11.43	8.83	1.73	3.37	1.08	1.99	2.59	1.83	46.83
1975	1.50	1.75	3.30	2.88	3.23	3.50	2.71	3.23	1.99	0.90	2.98	0.98	28.95
1976	0.88	1.11	3.67	4.21	4.13	2.02	3.34	0.60	1.89	2.13	0.65	0.34	24.97
1977	0.87	0.62	4.61	1.57	2.66	5.18	6.04	6.98	4.80	4.09	2.78	1.76	41.96
1978	0.59	0.67	0.78	3.02	4.65	3.50	3.24	2.47	3.91	1.95	3.32	3.17	31.27
1979	2.72	1.02	2.77	4.01	2.86	2.85	4.40	6.94	0.02	2.51	2.13	2.27	34.50
1980	1.31	1.55	1.74	2.34	4.01	4.97	3.46	9.09	2.94	1.63	0.70	2.75	36.49
1981	0.32	2.45	0.69	4.48	1.48	5.51	3.07	6.90	4.20	4.42	2.42	0.72	36.66
1982	2.08	0.45	3.85	3.33	5.03	3.61	8.83	2.89	1.94	3.38	3.64	4.99	44.02
1983	0.55	1.50	2.88	4.88	2.06	5.21	2.79	0.96	5.30	2.36	5.78	2.55	36.82
1984	0.84	0.79	3.45	4.31	4.97	3.75	4.63	1.31	2.32	6.60	2.91	3.51	39.39
1985	1.04	2.80	4.71	2.14	3.46	2.26	3.33	2.76	1.71	8.54	6.35	2.21	41.31
1986	0.38	2.53	1.35	3.15	5.54	5.10	6.34	3.24	5.63	4.23	1.03	1.95	40.47
1987	0.91	0.89	2.57	1.49	3.35	1.54	1.91	15.23	1.11	0.79	3.33	4.46	37.58
1988	1.74	1.08	2.36	1.36	2.32	1.16	1.79	4.89	1.97	2.37	3.14	1.57	25.75
1989	1.21	1.21	1.85	3.62	3.42	3.31	3.10	6.17	5.42	1.18	0.71	0.73	31.93
Record Mean	1.54	1.30	2.60	3.62	3.94	4.28	4.18	3.81	3.66	2.78	2.23	1.84	35.77

See Reference Notes on Page 6B.

AVERAGE TEMPERATURE (deg. F)

MOLINE, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
#1960	25.7	22.3	19.9	53.4	58.9	68.5	72.8	73.8	68.6	53.8	41.5	23.7	48.6
1961	21.1	30.7	39.3	44.3	58.1	71.9	74.2	73.9	66.1	55.4	40.8	23.0	49.9
1962	16.2	23.7	32.6	49.3	67.9	70.6	71.6	72.9	61.7	55.2	39.0	23.2	48.7
1963	9.7	17.9	41.1	52.9	60.0	73.5	74.8	70.8	64.9	64.4	43.1	13.8	48.9
1964	28.4	27.0	34.4	51.5	66.3	72.3	76.6	70.8	65.6	50.7	44.2	24.8	51.1
1965	21.4	25.7	26.9	49.2	65.9	69.6	74.9	71.1	63.5	53.6	40.7	34.5	49.8
1966	14.3	24.8	39.2	47.0	56.3	70.5	77.9	70.6	62.9	52.5	41.7	28.1	48.8
1967	26.0	18.7	39.0	51.6	56.4	70.9	71.4	67.7	62.1	52.1	36.1	28.5	48.4
1968	21.0	22.7	41.9	51.3	57.2	72.1	73.1	73.5	63.1	53.2	37.3	24.5	49.3
1969	17.9	27.9	32.2	51.6	61.7	67.1	75.0	73.7	64.9	51.7	37.9	24.3	48.8
1970	13.1	24.7	33.6	51.8	64.9	70.7	75.7	72.9	65.2	53.9	39.2	28.9	49.5
1971	14.8	25.9	34.7	50.9	58.0	76.6	70.7	71.9	68.7	59.9	40.0	31.6	50.3
1972	18.6	20.7	36.0	48.0	63.0	69.4	74.6	74.0	66.7	50.2	37.3	22.3	48.4
1973	27.1	28.7	45.4	49.7	57.6	72.3	74.9	75.1	65.7	57.3	40.4	23.7	51.5
1974	21.6	26.8	38.5	53.3	58.8	67.5	77.3	70.3	60.4	53.7	40.1	28.6	49.8
1975	24.9	25.0	30.6	45.1	63.8	72.3	75.0	75.1	60.9	56.2	45.0	30.3	50.4
1976	19.1	35.2	41.2	52.9	57.5	70.5	75.8	71.8	63.0	46.8	30.1	19.6	48.6
1977	8.2	27.1	43.6	56.6	68.9	70.0	77.5	71.0	65.5	51.2	38.7	21.7	50.0
1978	12.4	14.1	33.0	50.8	60.2	71.0	74.0	73.2	69.2	51.5	39.2	22.7	47.6
1979	6.3	13.2	36.3	47.4	61.9	71.2	73.5	72.0	64.3	52.1	37.0	31.7	47.2
1980	23.4	19.2	33.5	49.1	62.7	69.2	77.6	75.8	65.7	48.6	39.7	26.6	49.3
1981	23.4	27.1	39.4	54.3	57.5	71.0	73.3	71.2	63.5	49.9	41.1	25.3	49.7
1982	10.6	21.4	34.6	44.7	66.1	66.2	75.4	71.3	64.2	54.7	39.2	35.3	48.7
1983	26.9	32.0	38.9	45.5	57.8	72.9	79.4	79.6	65.6	53.1	42.9	14.0	50.7
1984	19.6	34.5	31.2	49.1	58.2	73.6	73.1	75.2	62.9	55.1	39.3	31.1	50.2
1985	14.3	21.8	42.5	57.1	64.9	69.4	74.2	69.7	66.1	53.6	35.2	14.9	48.6
1986	25.1	22.9	42.5	54.6	63.0	71.7	77.6	68.3	67.3	53.4	34.8	30.0	50.9
1987	25.2	34.4	42.2	52.6	66.8	74.6	79.4	72.9	64.4	47.4	44.0	31.0	52.9
1988	20.2	21.7	38.7	50.6	64.1	73.1	78.2	77.8	67.0	47.3	40.3	29.0	50.7
1989	32.7	17.4	37.0	49.9	58.8	69.2	76.2	72.2	61.9	54.6	38.6	15.6	48.7
Record Mean	21.4	25.9	36.5	50.3	61.3	71.2	75.4	73.1	65.0	53.6	39.0	26.5	50.0
Max	29.9	34.6	45.7	61.2	72.5	82.3	86.4	84.1	76.5	65.0	48.1	34.4	60.1
Min	12.8	17.2	27.2	39.4	50.0	60.1	64.3	62.1	53.5	42.2	30.0	18.5	39.8

See Reference Notes on Page 6B.

HEATING DEGREE DAYS Base 65 deg. F MOLINE, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1960-61	2	1	55	348	700	1277	1355	954	789	614	242	12	6349
1961-62	1	0	121	309	722	1297	1510	1150	999	481	78	22	6690
1962-63	8	1	149	342	774	1292	1717	1315	734	370	186	15	6903
1963-64	0	16	83	108	653	1585	1129	1097	942	405	71	20	6109
1964-65	3	24	100	437	624	1241	1344	1096	1174	471	86	3	6603
1965-66	0	21	115	363	722	939	1568	1119	794	533	287	31	6492
1966-67	0	6	116	386	695	1137	1202	1289	802	404	305	10	6352
1967-68	21	33	136	424	860	1127	1354	1221	711	409	248	18	6562
1968-69	8	15	96	404	826	1247	1458	1032	1010	398	172	57	6723
1969-70	0	0	80	445	805	1253	1607	1120	967	419	118	21	6835
1970-71	0	2	92	350	764	1111	1556	1088	931	425	242	0	6561
1971-72	17	3	94	195	740	1026	1434	1280	893	504	155	25	6366
1972-73	8	7	80	459	824	1319	1170	1013	598	452	223	1	6154
1973-74	0	0	78	258	733	1274	1338	1061	812	360	235	32	6181
1974-75	0	8	180	349	739	1122	1235	1114	1058	593	117	14	6529
1975-76	9	0	162	297	594	1072	1413	855	731	385	235	2	5755
1976-77	0	5	123	569	1038	1403	1755	1059	656	286	54	15	6963
1977-78	0	5	50	420	780	1337	1625	1417	986	423	229	13	7285
1978-79	1	4	59	415	767	1305	1820	1445	884	521	172	12	7405
1979-80	5	22	95	415	831	1027	1280	1324	966	481	129	27	6602
1980-81	0	1	77	503	755	1180	1281	1055	783	322	253	3	6213
1981-82	12	9	91	459	710	1226	1682	1214	936	604	62	35	7040
1982-83	0	14	110	333	765	916	1175	917	802	578	228	17	5855
1983-84	1	0	110	377	654	1578	1406	880	1039	482	225	2	6754
1984-85	3	4	171	303	761	1042	1568	1203	692	293	66	25	6131
1985-86	0	4	133	347	888	1546	1231	1174	705	338	104	9	6479
1986-87	0	30	55	358	898	1078	1227	850	701	385	101	4	5687
1987-88	0	23	84	540	627	1046	1384	1250	807	427	90	15	6293
1988-89	1	9	45	544	736	1109	998	1326	863	461	240	28	6360
1989-90	0	4	138	334	785	1527							

See Reference Notes on Page 6B.

COOLING DEGREE DAYS Base 65 deg. F MOLINE, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL
1969	0	0	0	1	77	130	320	276	86	41	0	0	931
1970	0	0	0	32	119	198	341	256	105	15	0	0	1066
1971	0	0	0	9	32	355	203	225	212	44	0	0	1080
1972	0	0	0	3	102	165	312	294	138	6	0	0	1020
1973	0	0	0	2	2	226	312	323	103	27	0	0	995
1974	0	0	0	17	50	113	389	180	45	3	0	0	797
1975	0	0	0	1	85	241	325	319	44	29	0	0	1044
1976	0	0	0	26	12	175	341	221	72	13	0	0	860
1977	0	0	0	44	182	173	397	199	73	0	0	0	1068
1978	0	0	1	0	87	202	288	267	195	5	0	0	1045
1979	0	0	0	0	83	206	272	245	79	22	0	0	907
1980	0	0	0	11	65	158	395	343	107	1	0	0	1080
1981	0	0	0	8	27	191	275	209	50	0	0	0	760
1982	0	0	0	0	102	78	327	215	95	20	0	0	837
1983	0	0	0	1	12	260	453	459	138	14	0	0	1337
1984	0	0	0	9	21	268	261	327	116	3	0	0	1005
1985	0	0	0	64	71	165	292	154	172	0	0	0	918
1986	0	0	12	31	48	216	396	143	133	4	0	0	983
1987	0	0	0	20	162	298	453	277	71	0	3	0	1284
1988	0	0	0	0	69	263	416	410	112	3	0	0	1273
1989	0	0	4	13	53	159	356	236	52	20	0	0	893

See Reference Notes on Page 6B.

SNOWFALL (inches)

MOLINE, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1960-61	0.0	0.0	0.0	0.0	T	5.5	3.4	2.5	2.4	2.5	0.0	0.0	16.3
1961-62	0.0	0.0	0.0	0.0	T	13.6	11.2	15.8	7.1	0.2	0.0	0.0	47.9
1962-63	0.0	0.0	0.0	0.2	T	3.1	14.7	5.8	7.3	0.0	0.0	0.0	31.1
1963-64	0.0	0.0	0.0	0.0	T	9.7	5.3	5.5	13.9	T	0.0	0.0	34.4
1964-65	0.0	0.0	0.0	0.0	2.1	11.7	10.2	7.4	16.2	0.0	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.3	5.7	6.0	0.8	0.7	0.1	T	0.0	13.6
1966-67	0.0	0.0	0.0	0.0	T	7.2	14.4	13.2	2.2	1.1	0.0	0.0	38.1
1967-68	0.0	0.0	0.0	6.6	0.3	3.2	8.6	2.8	1.1	T	0.0	0.0	22.6
1968-69	0.0	0.0	0.0	T	5.9	5.4	6.2	0.9	5.6	0.0	T	0.0	24.0
1969-70	0.0	0.0	0.0	0.0	1.5	15.4	7.2	6.1	12.7	8.3	0.0	0.0	51.2
1970-71	0.0	0.0	0.0	0.0	0.2	2.2	17.7	2.6	7.8	T	0.0	0.0	30.5
1971-72	0.0	0.0	0.0	0.0	5.9	0.3	11.8	13.7	19.8	2.6	0.0	0.0	54.1
1972-73	0.0	0.0	0.0	2.0	6.7	6.6	0.4	8.6	0.5	0.9	0.0	0.0	25.7
1973-74	0.0	0.0	0.0	0.0	T	11.4	12.7	7.4	3.0	0.6	0.0	0.0	35.1
1974-75	0.0	0.0	0.0	0.0	15.6	8.8	7.6	19.3	12.2	6.2	0.0	0.0	69.7
1975-76	0.0	0.0	0.0	0.0	9.9	2.5	8.6	0.1	0.6	0.0	T	0.0	21.7
1976-77	0.0	0.0	0.0	0.0	7.7	4.1	12.3	2.5	10.8	1.0	0.0	0.0	38.4
1977-78	0.0	0.0	0.0	0.0	4.8	20.8	6.1	6.8	6.5	T	0.0	0.0	45.0
1978-79	0.0	0.0	0.0	0.0	7.1	21.7	26.7	4.5	3.4	0.6	0.0	0.0	64.0
1979-80	0.0	0.0	0.0	T	1.9	0.8	4.2	13.1	7.5	9.5	0.0	0.0	37.0
1980-81	0.0	0.0	0.0	2.4	1.1	4.5	5.3	5.6	T	0.0	0.0	0.0	18.9
1981-82	0.0	0.0	0.0	T	3.3	4.3	13.6	4.5	6.6	13.0	0.0	0.0	45.3
1982-83	0.0	0.0	0.0	0.0	T	0.5	4.7	6.2	12.7	0.7	0.0	0.0	24.8
1983-84	0.0	0.0	0.0	T	0.9	18.9	9.9	1.9	13.6	0.1	0.0	0.0	45.3
1984-85	0.0	0.0	0.0	0.0	T	9.3	13.4	7.5	0.2	T	0.0	0.0	30.4
1985-86	0.0	0.0	0.0	0.0	3.1	11.5	3.7	7.8	0.2	0.4	0.0	0.0	26.7
1986-87	0.0	0.0	0.0	0.0	2.2	0.2	9.1	T	0.1	0.0	0.0	0.0	11.6
1987-88	0.0	0.0	0.0	T	0.6	15.9	2.7	16.4	0.5	0.0	0.0	0.0	36.1
1988-89	0.0	0.0	0.0	T	1.0	2.5	T	13.8	0.4	T	T	0.0	17.7
1989-90	0.0	0.0	0.0	T	0.1	8.2							
Record Mean	0.0	0.0	T	0.2	2.2	7.1	7.8	6.0	6.1	1.1	T	0.0	30.6

See Reference Notes on Page 6B.

REFERENCE NOTES

MOLINE, ILLINOIS

GENERAL
T - TRACE AMOUNT.
BLANK ENTRIES DENOTE MISSING/UNREPORTED DATA.
# INDICATES A STATION OR INSTRUMENT RELOCATION.
SEE STATION LOCATION TABLE ON PAGE 8.

SPECIFIC
PAGE 2
PM - INCLUDES LAST DAY OF PREVIOUS MONTH

PAGE 3
(a) - LENGTH OF RECORD IN YEARS, ALTHOUGH INDIVIDUAL MONTHS MAY BE MISSING.
0.* OR * THE VALUE IS BETWEEN 0.0 AND 0.05
NORMALS - BASED ON THE 1951-1980 RECORD PERIOD.
EXTREMES - DATES ARE THE MOST RECENT OCCURRENCE
WIND DIR.- NUMERALS SHOW TENS OF DEGRESS CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM.
RESULTANT DIRECTIONS ARE GIVEN TO WHOLE DEGREES.

PAGE 4B
MAX AND MIN ARE LONG TERM MEAN DAILY MAXIMUM AND MEAN DAILY MINIMUM TEMPERATURES.

EXCEPTIONS

PAGES 4A, 4B, 6A
RECORD MEANS ARE THROUGH THE CURRENT YEAR,
BEGINNING IN 1930 FOR TEMPERATURE
1927 FOR PRECIPITATION
1933 FOR SNOWFALL

MOLINE, ILLINOIS

The locality is in the heart of the Corn Belt. Agricultural crops include many important staple products in addition to corn. Cattle, hogs, horses, and poultry produced in Iowa and Illinois rank high in the nation. Close to the Mississippi River there is large scale truck gardening and considerable dairying. Field production of grains and livestock attains greater development farther away from the large streams, where the countryside is rolling prairie. Damaging droughts are not common. This, together with the variety of agricultural products, has led to designating the section as the Bread Basket of America.

The climate is favorable for many industries as evidenced by the large number and variety of manufacturing and other enterprises which have located and developed in the community. Among these are some of the largest producers of agricultural machinery in the world.

This area has a temperate continental climate, with a wide temperature range throughout the year. There are some intensely hot, unusually humid, periods in summer and severely cold periods in winter. Maxima of 90 degrees or more have occurred in summer as frequently as 55 days and zero or lower readings have occurred during every winter.

Freezing temperatures have occurred as late in spring as late May and as early in autumn as late September. Precipitation is usually well distributed throughout the year with the greatest amounts falling during the 177-day average crop growing season. Substantial weather changes frequently occur at three or four day intervals, as a direct result of proximity to some of the most important storm tracks.

STATION LOCATION

MOLINE, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Sunshine Switch	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Automatic Observing Equipment *	Remarks
NE Corner, Moline AP 4.5 miles S of Moline Post Office	10/1/26	12/27/39	NA	41° 27'	90° 31'	589	53	3	3				3			
Administration Building Quad City Airport	12/27/39	4/3/61	1200 feet W	41° 27'	90° 31'	589 h582	62 f25	5 b36 c5 d36	5 a36 c5 d36	Unk		4 e5	15	g4		a - Moved to roof site 12/1/54. b - Moved to roof site 5/31/55. c - Moved to field site 6/7/56. d - Moved to roof site 4/16/58. e - Effective 4/16/58. f - Moved to field site 11/13/58. g - Telepsychrometer (5') 6/7/56-3/1/60. Hygro. comm. 3/1/60. h - Effective 3/1/60.
Terminal Building Quad City Airport	4/4/61	Present	200 feet SE	41° 27'	90° 31'	582	i25	17	17	27	NA k16	i5 j16	15	i4 m4	NA	i - Not moved 4/4/61. j - Effective 7/22/63. k - Added 6/1/64. m - Type change 6/27/85.

* Type
M = AMOS
T = AUTOB

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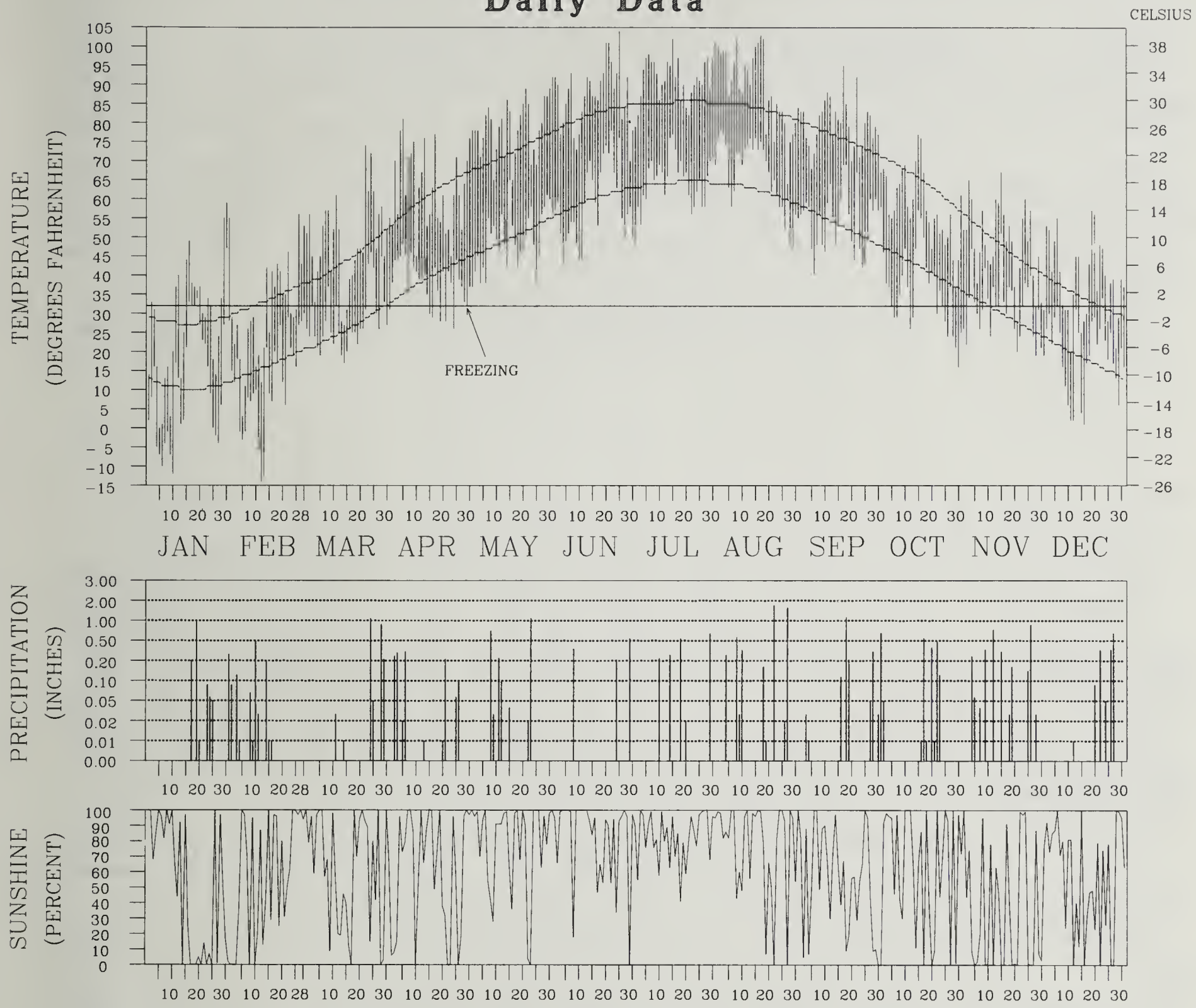
1988 LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

MOLINE,
ILLINOIS

Daily Data



TEMPERATURE DEPICTS NORMAL MAXIMUM, NORMAL MINIMUM AND ACTUAL DAILY HIGH AND LOW VALUES (FAHRENHEIT)
PRECIPITATION IS MEASURED IN INCHES, SCALE IS NON-LINEAR
SUNSHINE IS PERCENT OF THE POSSIBLE SUNSHINE

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METEOROLOGICAL DATA FOR 1988

MOLINE, ILLINOIS

LATITUDE: 41°27' N LONGITUDE: 90°31' W ELEVATION: FT. GRND 582 BARO 605 TIME ZONE: CENTRAL WBAN: 14923

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:													
Averages													
-Daily Maximum	28.6	31.0	49.2	63.0	78.9	87.3	91.7	89.3	79.9	58.3	48.9	38.8	62.1
-Daily Minimum	11.7	12.3	28.2	38.1	49.2	58.8	64.6	66.2	54.1	36.3	31.6	19.2	39.2
-Monthly	20.2	21.7	38.7	50.6	64.1	73.1	78.2	77.8	67.0	47.3	40.3	29.0	50.7
-Monthly Dewpt.	12.7	13.7	27.3	32.4	44.8	53.1	61.8	65.1	54.9	33.5	32.6	20.0	37.7
Extremes													
-Highest	59	56	74	81	92	104	102	103	95	77	67	57	104
-Date	30	26	22	5	31	25	15	17	17	15	15	19	JUN 25
-Lowest	-12	-14	17	26	37	43	48	47	40	16	19	1	-14
-Date	10	12	14	24	1	4	1	29	6	30	28	16	FEB 12
DEGREE DAYS BASE 65 °F:													
Heating	1384	1250	807	427	90	15	1	9	45	544	736	1109	6417
Cooling	0	0	0	0	69	263	416	410	112	3	0	0	1273
% OF POSSIBLE SUNSHINE	49	60	61	61	79	82	83	77	55	63	35	57	66
AVG. SKY COVER (tenths)													
Sunrise - Sunset	6.9	5.6	6.5	5.3	4.1	4.6	4.3	4.1	5.6	4.4	7.2	5.5	5.3
Midnight - Midnight	6.2	4.9	5.8	4.9	3.7	4.1	3.9	3.7	5.0	4.2	7.2	4.8	4.9
NUMBER OF DAYS:													
Sunrise to Sunset													
-Clear	7	11	7	11	12	12	13	16	7	15	7	10	128
-Partly Cloudy	6	6	9	7	16	11	13	7	14	7	3	10	109
-Cloudy	18	12	15	12	3	7	5	8	9	9	20	11	129
Precipitation .01 inches or more	7	10	6	9	7	3	5	9	8	9	11	6	90
Snow, Ice pellets 1.0 inches or more	0	4	0	0	0	0	0	0	0	0	0	1	5
Thunderstorms	1	0	4	4	5	3	3	6	2	3	2	0	33
Heavy Fog, visibility 1/4 mile or less	2	0	1	1	0	0	0	0	0	0	0	1	5
Temperature °F													
-Maximum													
90° and above	0	0	0	0	1	13	22	15	2	0	0	0	53
32° and below	17	17	3	0	0	0	0	0	0	0	2	11	50
-Minimum													
32° and below	28	29	25	6	0	0	0	0	0	13	17	30	148
0° and below	10	6	0	0	0	0	0	0	0	0	0	0	16
AVG. STATION PRESS. (mb)	999.3	998.6	994.6	991.5	993.2	995.6	995.3	993.6	994.6	997.6	990.5	998.6	995.3
RELATIVE HUMIDITY (%)													
Hour 00	76	78	74	64	66	65	73	83	80	70	79	75	74
Hour 06 (Local Time)	77	78	80	74	71	68	84	88	89	79	83	80	79
Hour 12 (Local Time)	68	64	53	40	38	39	44	51	52	46	68	60	52
Hour 18 (Local Time)	72	69	56	42	37	36	39	55	60	53	73	69	55
PRECIPITATION (inches):													
Water Equivalent													
-Total	1.74	1.08	2.36	1.36	2.32	1.16	1.79	4.89	1.97	2.37	3.14	1.57	25.75
-Greatest (24 hrs)	1.02	0.51	1.13	0.53	1.14	0.56	0.68	1.77	1.39	0.73	1.05	1.02	1.77
-Date	19	10	24	2- 3	23	29	29	22	18-19	PM- 1	25-26	26-27	AUG 22
Snow, Ice pellets													
-Total	2.7	16.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	T	1.0	2.5	23.1
-Greatest (24 hrs)	1.1	8.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	T	0.8	2.4	8.4
-Date	24-25	10	14							23	27-28	26	FEB 10
WIND:													
Resultant													
-Direction (!!!)	245	283	253	299	139	175	190	210	200	268	233	256	244
-Speed (mph)	6.2	5.7	2.8	3.3	2.7	1.6	1.6	3.3	2.6	5.7	4.8	5.9	3.0
Average Speed (mph)	12.3	11.5	12.5	11.9	9.5	8.0	5.7	7.2	9.1	10.4	12.9	11.9	10.2
Fastest Mile													
-Direction (!!!)	W	19	30	26	30	27	18	32	26	28	26	25	W
-Speed (mph)	41	28	35	35	40	21	23	38	32	30	32	31	41
-Date	12	22	26	27	8	25	29	8	19	23	16	23	JAN 12
Peak Gust													
-Direction (!!!)	W	W	W	W	NW	NE	W	W	SW	NW	W	SW	W
-Speed (mph)	52	43	56	49	60	33	32	62	49	47	52	45	62
-Date	12	20	25	26	8	8	29	18	19	23	16	20	AUG 18

(!!!) See Reference Notes on Page 6B

NORMALS, MEANS, AND EXTREMES

MOLINE, ILLINOIS

LATITUDE: 41°27'N LONGITUDE: 90°31' W ELEVATION: FT. GRND 582 BARO 605 TIME ZONE: CENTRAL WBAN: 14923

	(a)	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:														
Normals														
-Daily Maximum		28.0	33.7	44.8	61.1	72.5	82.1	85.4	83.6	76.2	64.8	48.0	34.3	59.5
-Daily Minimum		11.0	16.4	26.5	39.6	50.1	59.9	64.3	62.1	53.2	42.1	30.0	18.4	39.5
-Monthly		19.5	25.1	35.7	50.4	61.3	71.0	74.9	72.9	64.7	53.5	39.0	26.4	49.5
Extremes														
-Record Highest	56	65	71	88	93	104	104	105	106	100	92	80	69	106
-Year		1950	1976	1986	1986	1934	1988	1940	1936	1939	1963	1933	1970	AUG 1936
-Record Lowest	56	-27	-25	-19	7	26	39	46	40	24	16	-9	-22	-27
-Year		1979	1979	1960	1982	1966	1972	1971	1986	1942	1988	1976	1963	JAN 1979
NORMAL DEGREE DAYS:														
Heating (base 65°F)		1411	1117	908	438	177	20	0	5	75	370	780	1197	6498
Cooling (base 65°F)		0	0	0	0	62	200	307	250	66	14	0	0	899
% OF POSSIBLE SUNSHINE	45	48	49	50	53	57	63	69	66	62	58	42	40	55
MEAN SKY COVER (tenths)														
Sunrise - Sunset	46	6.6	6.4	6.8	6.5	6.2	6.0	5.3	5.3	5.2	5.3	6.7	6.8	6.1
MEAN NUMBER OF DAYS:														
Sunrise to Sunset														
-Clear	55	7.9	7.2	6.5	6.7	7.5	7.3	10.3	10.3	11.7	11.6	7.4	7.0	101.3
-Partly Cloudy	55	6.9	6.5	7.9	8.6	9.3	10.6	11.9	10.9	7.8	7.7	6.7	6.3	101.1
-Cloudy	55	16.2	14.6	16.6	14.7	14.2	12.1	8.8	9.9	10.5	11.7	15.9	17.8	162.9
Precipitation .01 inches or more	56	9.1	7.9	11.1	10.8	11.9	10.2	9.5	8.8	8.7	7.7	8.4	9.2	113.4
Snow, Ice pellets 1.0 inches or more	56	2.6	2.1	1.8	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.7	2.3	9.8
Thunderstorms	55	0.3	0.5	2.1	4.5	6.7	8.2	8.4	7.1	4.4	2.5	1.3	0.8	46.7
Heavy Fog Visibility 1/4 mile or less	54	2.2	2.0	1.9	0.7	0.8	0.6	0.7	2.0	1.6	1.9	1.2	1.9	17.7
Temperature °F														
-Maximum														
90° and above	28	0.0	0.0	0.0	0.1	1.3	5.4	9.0	6.1	1.8	0.1	0.0	0.0	23.8
32° and below	28	19.2	12.6	3.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	2.1	13.0	50.7
-Minimum														
32° and below	28	29.6	25.4	20.9	7.1	0.6	0.0	0.0	0.0	0.2	5.8	18.4	27.2	135.1
0° and below	28	8.9	4.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.6	17.3
AVG. STATION PRESS. (mb)	16	997.7	997.1	993.7	992.8	992.4	992.8	994.2	995.1	995.7	996.5	995.8	996.9	995.1
RELATIVE HUMIDITY (%)														
Hour 00	28	72	73	74	72	75	76	82	84	83	76	76	76	77
Hour 06 (Local Time)	28	73	75	78	78	79	80	85	89	87	81	79	78	80
Hour 12	28	65	63	60	54	52	52	57	58	57	55	63	69	59
Hour 18	28	68	66	62	54	52	53	58	62	65	63	69	73	62
PRECIPITATION (inches):														
Water Equivalent														
-Normal		1.64	1.30	2.77	3.97	4.21	4.32	4.88	3.76	3.74	2.70	1.96	1.92	37.17
-Maximum Monthly	59	4.39	2.80	7.43	11.30	11.43	8.83	11.39	15.23	14.18	9.41	6.47	4.99	15.23
-Year		1974	1985	1973	1973	1974	1974	1969	1987	1970	1941	1934	1982	AUG 1987
-Minimum Monthly	59	0.31	0.17	0.31	0.68	0.55	1.02	1.02	0.35	0.02	0.01	0.29	0.23	0.01
-Year		1961	1933	1958	1946	1928	1963	1955	1971	1979	1964	1933	1929	OCT 1964
-Maximum in 24 hrs	59	2.07	1.90	2.42	5.81	3.68	5.02	5.41	5.13	6.29	4.89	2.73	3.38	6.29
-Year		1960	1948	1985	1973	1970	1967	1963	1987	1961	1954	1961	1942	SEP 1961
Snow, Ice pellets														
-Maximum Monthly	57	26.7	19.3	19.8	13.0	0.3	0.0	0.0	0.0	0.1	6.6	15.6	21.7	26.7
-Year		1979	1975	1972	1982	1935				1942	1967	1974	1978	JAN 1979
-Maximum in 24 hrs	55	16.4	10.1	11.0	8.2	0.3	0.0	0.0	0.0	0.1	6.5	8.5	11.4	16.4
-Year		1971	1975	1972	1970	1935				1942	1967	1975	1987	JAN 1971
WIND:														
Mean Speed (mph)	45	10.9	10.9	12.1	12.2	10.4	9.3	7.7	7.3	8.3	9.3	10.8	10.7	10.0
Prevailing Direction through 1963		WNW	WNW	WNW	NW	E	S	E	E	S	S	WNW	WNW	WNW
Fastest Mile														
-Direction (!!)	59	SW	NW	SW	SW	SW	SW	W	N	NW	SW	W	SW	SW
-Speed (MPH)	59	56	58	66	73	68	77	65	63	66	56	60	61	77
-Year		1946	1948	1954	1947	1955	1947	1953	1987	1945	1949	1952	1947	JUN 1947
Peak Gust														
-Direction (!!)	5	NW	N	SW	SW	NW	NW	NW	N	SW	SW	W	NW	N
-Speed (mph)	5	54	47	58	69	60	48	52	81	49	61	52	56	81
-Date		1986	1987	1985	1984	1988	1984	1984	1987	1988	1984	1988	1985	AUG 1987

(!!) See Reference Notes on Page 6B.

PRECIPITATION (inches)

MOLINE, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1959	1.41	1.77	3.06	4.75	5.31	3.62	4.48	3.90	4.29	5.59	1.50	2.42	42.10
1960	3.43	2.78	1.28	4.89	3.98	5.40	3.40	3.97	3.42	4.91	1.11	0.88	39.45
1961	0.31	1.20	4.48	2.19	1.98	3.69	7.63	2.37	11.00	4.53	4.94	1.58	45.90
1962	2.08	1.84	2.42	2.44	6.10	1.48	6.73	1.95	2.90	4.15	1.21	0.55	33.85
1963	0.91	0.37	3.29	4.24	2.36	1.02	8.78	4.02	2.38	0.63	1.84	0.94	30.78
1964	1.59	0.73	4.02	6.37	2.68	3.89	5.31	2.41	3.99	0.01	3.40	1.27	35.67
1965	4.08	0.97	2.52	7.92	4.04	2.07	4.78	9.31	8.27	0.88	1.93	2.82	49.59
1966	2.01	0.89	0.85	3.96	6.39	4.25	7.74	0.77	2.80	4.38	1.12	2.52	37.68
1967	2.00	1.11	1.68	4.91	1.70	8.15	4.15	3.62	4.99	6.23	2.26	1.56	42.36
1968	0.80	0.32	1.96	3.57	2.59	3.70	3.91	2.16	5.70	1.09	3.29	2.76	31.85
1969	3.28	0.21	2.25	3.11	3.40	6.97	11.39	2.00	2.50	4.63	0.53	1.52	41.79
1970	0.54	0.57	2.62	4.66	11.07	3.25	6.27	3.61	14.18	1.75	1.25	1.95	51.72
1971	1.79	1.57	1.99	1.86	3.14	2.36	11.22	0.35	4.54	2.64	2.21	4.77	38.44
1972	1.19	1.24	3.73	5.19	4.24	8.66	3.79	8.20	3.29	2.39	2.75	1.98	46.65
1973	2.53	1.94	7.43	11.30	6.96	6.58	2.63	2.30	6.74	3.06	1.15	3.74	56.36
1974	4.39	1.57	2.94	5.08	11.43	8.83	1.73	3.37	1.08	1.99	2.59	1.83	46.83
1975	1.50	1.75	3.30	2.88	3.23	3.50	2.71	3.23	1.99	0.90	2.98	0.98	28.95
1976	0.88	1.11	3.67	4.21	4.13	2.02	3.34	0.60	1.89	2.13	0.65	0.34	24.97
1977	0.87	0.62	4.61	1.57	2.66	5.18	6.04	6.98	4.80	4.09	2.78	1.76	41.96
1978	0.59	0.67	0.78	3.02	4.65	3.50	3.24	2.47	3.91	1.95	3.32	3.17	31.27
1979	2.72	1.02	2.77	4.01	2.86	2.85	4.40	6.94	0.02	2.51	2.13	2.27	34.50
1980	1.31	1.55	1.74	2.34	4.01	4.97	3.46	9.09	2.94	1.63	0.70	2.75	36.49
1981	0.32	2.45	0.69	4.48	1.48	5.51	3.07	6.90	4.20	4.42	2.42	0.72	36.66
1982	2.08	0.45	3.85	3.33	5.03	3.61	8.83	2.89	1.94	3.38	3.64	4.99	44.02
1983	0.55	1.50	2.88	4.88	2.06	5.21	2.79	0.96	5.30	2.36	5.78	2.55	36.82
1984	0.84	0.79	3.45	4.31	4.97	3.75	4.63	1.31	2.32	6.60	2.91	3.51	39.39
1985	1.04	2.80	4.71	2.14	3.46	2.26	3.33	2.76	1.71	8.54	6.35	2.21	41.31
1986	0.38	2.53	1.35	3.15	5.54	5.10	6.34	3.24	5.63	4.23	1.03	1.95	40.47
1987	0.91	0.89	2.57	1.49	3.35	1.54	1.91	15.23	1.11	0.79	3.33	4.46	37.58
1988	1.74	1.08	2.36	1.36	2.32	1.16	1.79	4.89	1.97	2.37	3.14	1.57	25.75
Record Mean	1.54	1.30	2.61	3.62	3.95	4.30	4.19	3.77	3.64	2.80	2.25	1.86	35.83

See Reference Notes on Page 6B.

AVERAGE TEMPERATURE (deg. F)

MOLINE, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1959	15.7	25.7	36.9	49.4	65.3	72.0	73.2	77.2	66.3	49.9	31.4	34.7	49.8
#1960	25.7	22.3	19.9	53.4	58.9	68.5	72.8	73.8	68.6	53.8	41.5	23.7	48.6
1961	21.1	30.7	39.3	44.3	58.1	71.9	74.2	73.9	66.1	55.4	40.8	23.0	49.9
1962	16.2	23.7	32.6	49.3	67.9	70.6	71.6	72.9	61.7	55.2	39.0	23.2	48.7
1963	9.7	17.9	41.1	52.9	60.0	73.5	74.8	70.8	64.9	64.4	43.1	13.8	48.9
1964	28.4	27.0	34.4	51.5	66.3	72.3	76.6	70.8	65.6	50.7	44.2	24.8	51.1
1965	21.4	25.7	26.9	49.2	65.9	69.6	74.9	71.1	63.5	53.6	40.7	34.5	49.8
1966	14.3	24.8	39.2	47.0	56.3	70.5	77.9	70.6	62.9	52.5	41.7	28.1	48.8
1967	26.0	18.7	39.0	51.6	56.4	70.9	71.4	67.7	62.1	52.1	36.1	28.5	48.4
1968	21.0	22.7	41.9	51.3	57.2	72.1	73.1	73.5	63.1	53.2	37.3	24.5	49.3
1969	17.9	27.9	32.2	51.6	61.7	67.1	75.0	73.7	64.9	51.7	37.9	24.3	48.8
1970	13.1	24.7	33.6	51.8	64.9	70.7	75.7	72.9	65.2	53.9	39.2	28.9	49.5
1971	14.8	25.9	34.7	50.9	58.0	76.6	70.7	71.9	68.7	59.9	40.0	31.6	50.3
1972	18.6	20.7	36.0	48.0	63.0	69.4	74.6	74.0	66.7	50.2	37.3	22.3	48.4
1973	27.1	28.7	45.4	49.7	57.6	72.3	74.9	75.1	65.7	57.3	40.4	23.7	51.5
1974	21.6	26.8	38.5	53.3	58.8	67.5	77.3	70.3	60.4	53.7	40.1	28.6	49.8
1975	24.9	25.0	30.6	45.1	63.8	72.3	75.0	75.1	60.9	56.2	45.0	30.3	50.4
1976	19.1	35.2	41.2	52.9	57.5	70.5	75.8	71.8	63.0	46.8	30.1	19.6	48.6
1977	8.2	27.1	43.6	56.6	68.9	70.0	77.5	71.0	65.5	51.2	38.7	21.7	50.0
1978	12.4	14.1	33.0	50.8	60.2	71.0	74.0	73.2	69.2	51.5	39.2	22.7	47.6
1979	6.3	13.2	36.3	47.4	61.9	71.2	73.5	72.0	64.3	52.1	37.0	31.7	47.2
1980	23.4	19.2	33.5	49.1	62.7	69.2	77.6	75.8	65.7	48.6	39.7	26.6	49.3
1981	23.4	27.1	39.4	54.3	57.5	71.0	73.3	71.2	63.5	49.9	41.1	25.3	49.7
1982	10.6	21.4	34.6	44.7	66.1	66.2	75.4	71.3	64.2	54.7	39.2	35.3	48.7
1983	26.9	32.0	38.9	45.5	57.8	72.9	79.4	79.6	65.6	53.1	42.9	14.0	50.7
1984	19.6	34.5	31.2	49.1	58.2	73.6	73.1	75.2	62.9	55.1	39.3	31.1	50.2
1985	14.3	21.8	42.5	57.1	64.9	69.4	74.2	69.7	66.1	53.6	35.2	14.9	48.6
1986	25.1	22.9	42.5	54.6	63.0	71.7	77.6	68.3	67.3	53.4	34.8	30.0	50.9
1987	25.2	34.4	42.2	52.6	66.8	74.6	79.4	72.9	64.4	47.4	44.0	31.0	52.9
1988	20.2	21.7	38.7	50.6	64.1	73.1	78.2	77.8	67.0	47.3	40.3	29.0	50.7
Record Mean	21.2	26.0	36.5	50.3	61.3	71.2	75.4	73.2	65.1	53.6	39.0	26.6	50.0
Max	29.7	34.8	45.7	61.2	72.5	82.3	86.4	84.2	76.6	65.0	48.1	34.6	60.1
Min	12.6	17.3	27.2	39.4	50.1	60.1	64.3	62.1	53.5	42.2	30.0	18.7	39.8

See Reference Notes on Page 6B.

HEATING DEGREE DAYS Base 65 deg. F MOLINE, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
#1959-60	4	1	100	462	1002	932	1212	1229	1392	376	203	13	6926
1960-61	2	1	55	348	700	1277	1355	954	789	614	242	12	6349
1961-62	1	0	121	309	722	1297	1510	1150	999	481	78	22	6690
1962-63	8	1	149	342	774	1292	1717	1315	734	370	186	15	6903
1963-64	0	16	83	108	653	1585	1129	1097	942	405	71	20	6109
1964-65	3	24	100	437	624	1241	1344	1096	1174	471	86	3	6603
1965-66	0	21	115	363	722	939	1568	1119	794	533	287	31	6492
1966-67	0	6	116	386	695	1137	1202	1289	802	404	305	10	6352
1967-68	21	33	136	424	860	1127	1354	1221	711	409	248	18	6562
1968-69	8	15	96	404	826	1247	1458	1032	1010	398	172	57	6723
1969-70	0	0	80	445	805	1253	1607	1120	967	419	118	21	6835
1970-71	0	2	92	350	764	1111	1556	1088	931	425	242	0	6561
1971-72	17	3	94	195	740	1026	1434	1280	893	504	155	25	6366
1972-73	8	7	80	459	824	1319	1170	1013	598	452	223	1	6154
1973-74	0	0	78	258	733	1274	1338	1061	812	360	235	32	6181
1974-75	0	8	180	349	739	1122	1235	1114	1058	593	117	14	6529
1975-76	9	0	162	297	594	1072	1413	855	731	385	235	2	5755
1976-77	0	5	123	569	1038	1403	1755	1059	656	286	54	15	6963
1977-78	0	5	50	420	780	1337	1625	1417	986	423	229	13	7285
1978-79	1	4	59	415	767	1305	1820	1445	884	521	172	12	7405
1979-80	5	22	95	415	831	1027	1280	1324	966	481	129	27	6602
1980-81	0	1	77	503	755	1180	1281	1055	783	322	253	3	6213
1981-82	12	9	91	459	710	1226	1682	1214	936	604	62	35	7040
1982-83	0	14	110	333	765	916	1175	917	802	578	228	17	5855
1983-84	1	0	110	377	654	1578	1406	880	1039	482	225	2	6754
1984-85	3	4	171	303	761	1042	1568	1203	692	293	66	25	6131
1985-86	0	4	133	347	888	1546	1231	1174	705	338	104	9	6479
1986-87	0	30	55	358	898	1078	1227	850	701	385	101	4	5687
1987-88	0	23	84	540	627	1046	1384	1250	807	427	90	15	6293
1988-89	1	9	45	544	736	1109							

See Reference Notes on Page 6B.

COOLING DEGREE DAYS Base 65 deg. F MOLINE, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL
1969	0	0	0	1	77	130	320	276	86	41	0	0	931
1970	0	0	0	32	119	198	341	256	105	15	0	0	1066
1971	0	0	0	9	32	355	203	225	212	44	0	0	1080
1972	0	0	0	3	102	165	312	294	138	6	0	0	1020
1973	0	0	0	2	2	226	312	323	103	27	0	0	995
1974	0	0	0	17	50	113	389	180	45	3	0	0	797
1975	0	0	0	1	85	241	325	319	44	29	0	0	1044
1976	0	0	0	26	12	175	341	221	72	13	0	0	860
1977	0	0	0	44	182	173	397	199	73	0	0	0	1068
1978	0	0	1	0	87	202	288	267	195	5	0	0	1045
1979	0	0	0	0	83	206	272	245	79	22	0	0	907
1980	0	0	0	11	65	158	395	343	107	1	0	0	1080
1981	0	0	0	8	27	191	275	209	50	0	0	0	760
1982	0	0	0	0	102	78	327	215	95	20	0	0	837
1983	0	0	0	1	12	260	453	459	138	14	0	0	1337
1984	0	0	0	9	21	268	261	327	116	3	0	0	1005
1985	0	0	0	64	71	165	292	154	172	0	0	0	918
1986	0	0	12	31	48	216	396	143	133	4	0	0	983
1987	0	0	0	20	162	298	453	277	71	0	3	0	1284
1988	0	0	0	0	69	263	416	410	112	3	0	0	1273

See Reference Notes on Page 6B.

SNOWFALL (inches)

MOLINE, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1959-60	0.0	0.0	0.0	T	9.1	9.9	8.5	19.3	14.7	T	T	0.0	61.5
1960-61	0.0	0.0	0.0	0.0	T	5.5	3.4	2.5	2.4	2.5	0.0	0.0	16.3
1961-62	0.0	0.0	0.0	0.0	T	13.6	11.2	15.8	7.1	0.2	0.0	0.0	47.9
1962-63	0.0	0.0	0.0	0.2	T	3.1	14.7	5.8	7.3	0.0	0.0	0.0	31.1
1963-64	0.0	0.0	0.0	0.0	T	9.7	5.3	5.5	13.9	T	0.0	0.0	34.4
1964-65	0.0	0.0	0.0	0.0	2.1	11.7	10.2	7.4	16.2	0.0	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.3	5.7	6.0	0.8	0.7	0.1	T	0.0	13.6
1966-67	0.0	0.0	0.0	0.0	T	7.2	14.4	13.2	2.2	1.1	0.0	0.0	38.1
1967-68	0.0	0.0	0.0	6.6	0.3	3.2	8.6	2.8	1.1	T	0.0	0.0	22.6
1968-69	0.0	0.0	0.0	T	5.9	5.4	6.2	0.9	5.6	0.0	T	0.0	24.0
1969-70	0.0	0.0	0.0	0.0	1.5	15.4	7.2	6.1	12.7	8.3	0.0	0.0	51.2
1970-71	0.0	0.0	0.0	0.0	0.2	2.2	17.7	2.6	7.8	T	0.0	0.0	30.5
1971-72	0.0	0.0	0.0	0.0	5.9	0.3	11.8	13.7	19.8	2.6	0.0	0.0	54.1
1972-73	0.0	0.0	0.0	2.0	6.7	6.6	0.4	8.6	0.5	0.9	0.0	0.0	25.7
1973-74	0.0	0.0	0.0	0.0	T	11.4	12.7	7.4	3.0	0.6	0.0	0.0	35.1
1974-75	0.0	0.0	0.0	0.0	15.6	8.8	7.6	19.3	12.2	6.2	0.0	0.0	69.7
1975-76	0.0	0.0	0.0	0.0	9.9	2.5	8.6	0.1	0.6	0.0	T	0.0	21.7
1976-77	0.0	0.0	0.0	0.0	7.7	4.1	12.3	2.5	10.8	1.0	0.0	0.0	38.4
1977-78	0.0	0.0	0.0	0.0	4.8	20.8	6.1	6.8	6.5	T	0.0	0.0	45.0
1978-79	0.0	0.0	0.0	0.0	7.1	21.7	26.7	4.5	3.4	0.6	0.0	0.0	64.0
1979-80	0.0	0.0	0.0	T	1.9	0.8	4.2	13.1	7.5	9.5	0.0	0.0	37.0
1980-81	0.0	0.0	0.0	2.4	1.1	4.5	5.3	5.6	T	0.0	0.0	0.0	18.9
1981-82	0.0	0.0	0.0	T	3.3	4.3	13.6	4.5	6.6	13.0	0.0	0.0	45.3
1982-83	0.0	0.0	0.0	0.0	T	0.5	4.7	6.2	12.7	0.7	0.0	0.0	24.8
1983-84	0.0	0.0	0.0	T	0.9	18.9	9.9	1.9	13.6	0.1	0.0	0.0	45.3
1984-85	0.0	0.0	0.0	0.0	T	9.3	13.4	7.5	0.2	T	0.0	0.0	30.4
1985-86	0.0	0.0	0.0	0.0	3.1	11.5	3.7	7.8	0.2	0.4	0.0	0.0	26.7
1986-87	0.0	0.0	0.0	0.0	2.2	0.2	9.1	T	0.1	0.0	0.0	0.0	11.6
1987-88	0.0	0.0	0.0	T	0.6	15.9	2.7	16.4	0.5	0.0	0.0	0.0	36.1
1988-89	0.0	0.0	0.0	T	1.0	2.5							
Record Mean	0.0	0.0	T	0.2	2.3	7.1	8.0	5.9	6.2	1.1	T	0.0	30.8

See Reference Notes on Page 6B.

REFERENCE NOTES

MOLINE, ILLINOIS

GENERAL
T - TRACE AMOUNT.
BLANK ENTRIES DENOTE MISSING/UNREPORTED DATA.
# INDICATES A STATION OR INSTRUMENT RELOCATION.
SEE STATION LOCATION TABLE ON PAGE 8.

SPECIFIC
PAGE 2
PM - INCLUDES LAST DAY OF PREVIOUS MONTH

PAGE 3
(a) - LENGTH OF RECORD IN YEARS, ALTHOUGH INDIVIDUAL MONTHS MAY BE MISSING.
* LESS THAN .05
NORMALS - BASED ON THE 1951-1980 RECORD PERIOD.
EXTREMES - DATES ARE THE MOST RECENT OCCURRENCE
WIND DIR.- NUMERALS SHOW TENS OF DEGRESS CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM.
RESULTANT DIRECTIONS ARE GIVEN TO WHOLE DEGREES.

PAGE 4B
MAX AND MIN ARE LONG TERM MEAN DAILY MAXIMUM AND MEAN DAILY MINIMUM TEMPERATURES.

EXCEPTIONS

PAGES 4A, 4B, 6A
RECORD MEANS ARE THROUGH THE CURRENT YEAR,
BEGINNING IN 1930 FOR TEMPERATURE
1927 FOR PRECIPITATION
1933 FOR SNOWFALL

MOLINE, ILLINOIS

The locality is in the heart of the Corn Belt. Agricultural crops include many important staple products in addition to corn. Cattle, hogs, horses, and poultry produced in Iowa and Illinois rank high in the nation. Close to the Mississippi River there is large scale truck gardening and considerable dairying. Field production of grains and livestock attains greater development farther away from the large streams, where the countryside is rolling prairie. Damaging droughts are not common. This, together with the variety of agricultural products, has led to designating the section as the Bread Basket of America.

The climate is favorable for many industries as evidenced by the large number and variety of manufacturing and other enterprises which have located and developed in the community. Among these are some of the largest producers of agricultural machinery in the world.

This area has a temperate continental climate, with a wide temperature range throughout the year. There are some intensely hot, unusually humid, periods in summer and severely cold periods in winter. Maxima of 90 degrees or more have occurred in summer as frequently as 55 days and zero or lower readings have occurred during every winter.

Freezing temperatures have occurred as late in spring as late May and as early in autumn as late September. Precipitation is usually well distributed throughout the year with the greatest amounts falling during the 177-day average crop growing season. Substantial weather changes frequently occur at three or four day intervals, as a direct result of proximity to some of the most important storm tracks.

STATION LOCATION

MOLINE, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Sunshine Switch	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Automatic Observing Equipment *	Remarks
NE Corner, Moline AP 4.5 miles S of Moline Post Office	10/1/26	12/27/39	NA	41° 27'	90° 31'	589	53	3	3				3			
Administration Building Quad City Airport	12/27/39	4/3/61	1200 feet W	41° 27'	90° 31'	589 h582	62 f25	5 b36 c5 d36	5 a36 c5 d36	Unk		4 e5	15	g4		a - Moved to roof site 12/1/54. b - Moved to roof site 5/31/55. c - Moved to field site 6/7/56. d - Moved to roof site 4/16/58. e - Effective 4/16/58. f - Moved to field site 11/13/58. g - Telepsychrometer (5') 6/7/56-3/1/60. Hygro. comm. 3/1/60. h - Effective 3/1/60.
Terminal Building Quad City Airport	4/4/61	Present	200 feet SE	41° 27'	90° 31'	582	i25	17	17	27	NA k16	i5 j16	15	i4 m4	NA	i - Not moved 4/4/61. j - Effective 7/22/63. k - Added 6/1/64. m - Type change 6/27/85.

* Type
M = AMOS
T = AUTOB

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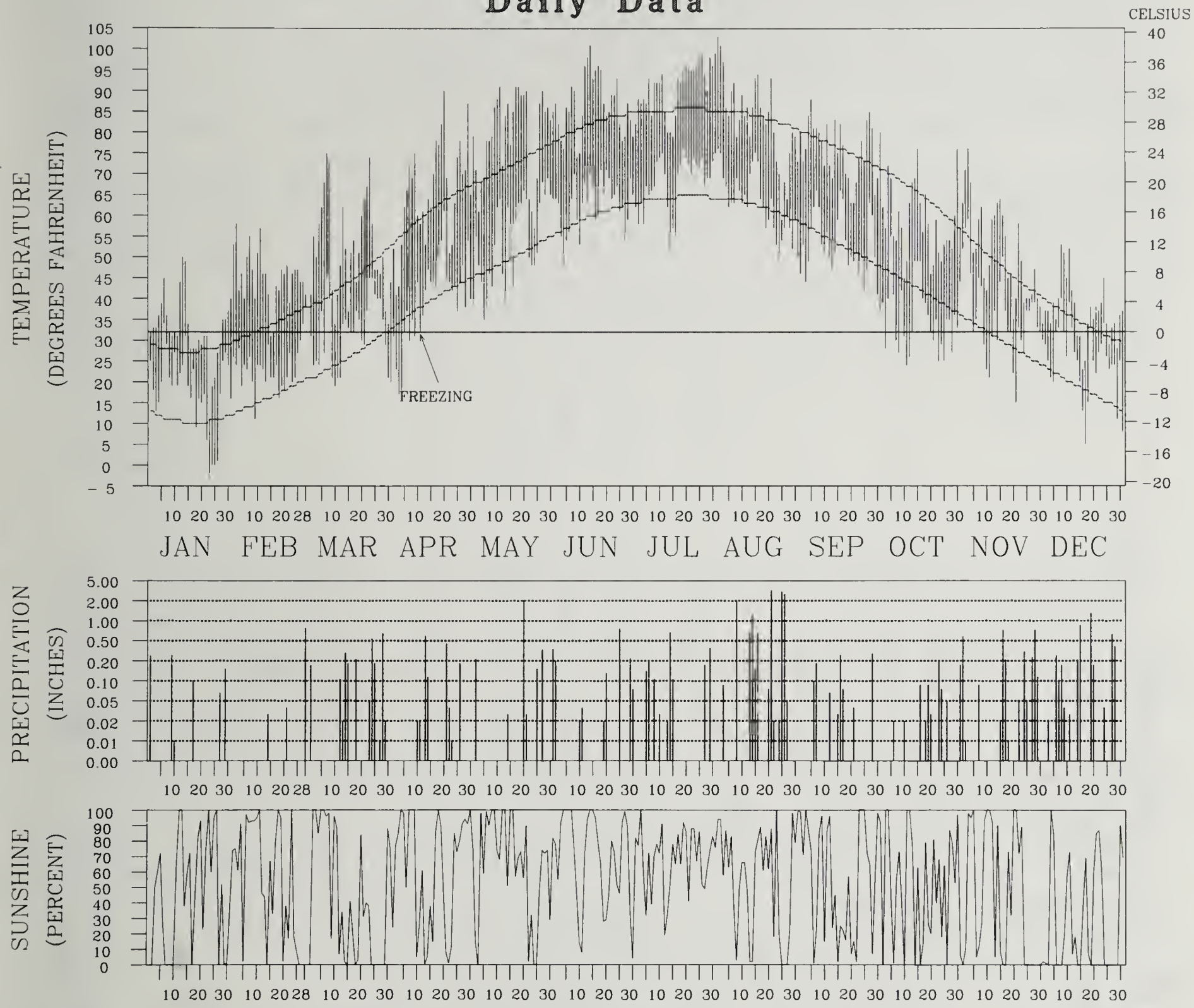
1987 LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

MOLINE,
ILLINOIS

Daily Data



TEMPERATURE DEPICTS NORMAL MAXIMUM, NORMAL MINIMUM AND ACTUAL DAILY HIGH AND LOW VALUES (FAHRENHEIT)
PRECIPITATION IS MEASURED IN INCHES, SCALE IS NON-LINEAR
SUNSHINE IS PERCENT OF THE POSSIBLE SUNSHINE

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METEOROLOGICAL DATA FOR 1987

MOLINE, ILLINOIS

LATITUDE: 41°27' N LONGITUDE: 90°31' W ELEVATION: FT. GRND 582 BARO 605 TIME ZONE: CENTRAL WBAN: 14923

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:													
Averages													
-Daily Maximum	32.8	45.3	52.5	65.6	79.7	86.6	91.0	83.1	75.8	59.3	51.9	36.9	63.4
-Daily Minimum	17.6	23.5	31.8	39.5	53.9	62.6	67.8	62.7	52.9	35.5	36.0	25.0	42.4
-Monthly	25.2	34.4	42.2	52.6	66.8	74.6	79.4	72.9	64.4	47.4	44.0	31.0	52.9
-Monthly Dewpt.	18.8	24.0	29.7	37.7	51.0	59.8	67.9	63.5	54.8	34.1	34.7	25.9	41.8
Extremes													
-Highest	50	58	75	90	91	101	99	103	88	80	76	53	103
-Date	13	2	7	20	18	14	31	1	5	1	3	8	AUG 1
-Lowest	-3	11	19	17	35	48	52	49	41	24	15	5	-3
-Date	23	9	10	3	5	4	14	24	30	11	21	17	JAN 23
DEGREE DAYS BASE 65 °F:													
Heating	1227	850	701	385	101	4	0	23	84	540	627	1046	5588
Cooling	0	0	0	20	162	298	453	277	71	0	3	0	1284
% OF POSSIBLE SUNSHINE	45	54	43	61	64	68	68	56	55	51	44	30	55
AVG. SKY COVER (tenths)													
Sunrise - Sunset	7.0	6.9	7.5	5.2	5.5	5.6	5.3	5.9	5.7	6.0	6.4	7.1	6.2
Midnight - Midnight	6.8	6.0	7.0	4.5	5.3	5.2	5.3	5.3	4.8	5.4	6.3	7.5	5.8
NUMBER OF DAYS:													
Sunrise to Sunset													
-Clear	7	5	6	14	7	10	8	8	8	8	10	7	98
-Partly Cloudy	6	9	4	4	14	9	16	12	10	9	3	6	102
-Cloudy	18	14	21	12	10	11	7	11	12	14	17	18	165
Precipitation .01 inches or more	6	3	12	8	7	8	9	13	8	10	13	13	110
Snow, Ice pellets 1.0 inches or more	3	0	0	0	0	0	0	0	0	0	0	3	6
Thunderstorms	0	0	0	3	7	5	11	10	3	0	1	1	41
Heavy Fog, visibility 1/4 mile or less	2	0	0	1	0	0	0	0	0	2	1	2	8
Temperature °F													
-Maximum													
90° and above	0	0	0	1	5	10	20	8	0	0	0	0	44
32° and below	17	2	0	0	0	0	0	0	0	0	0	6	25
-Minimum													
32° and below	30	26	16	8	0	0	0	0	0	13	13	25	131
0° and below	3	0	0	0	0	0	0	0	0	0	0	0	3
AVG. STATION PRESS. (mb)	995.3	998.3	995.3	993.6	994.9	992.9	993.6	994.6	993.9	998.3	997.0	994.9	995.3
RELATIVE HUMIDITY (%)													
Hour 00 (Local Time)	79	81	73	70	70	73	83	87	87	72	77	83	78
Hour 06 (Local Time)	83	85	80	80	77	79	89	91	92	78	82	84	83
Hour 12 (Local Time)	68	56	57	50	50	48	54	60	56	50	63	77	57
Hour 18 (Local Time)	75	60	57	46	49	47	59	64	66	59	68	80	61
PRECIPITATION (inches):													
Water Equivalent													
-Total	0.91	0.89	2.57	1.49	3.35	1.54	1.91	15.23	1.11	0.79	3.33	4.46	37.58
-Greatest (24 hrs)	0.30	0.82	1.00	0.63	2.15	0.80	0.83	5.13	0.32	0.29	1.01	1.57	5.13
-Date	9-10	28	PM- 1	13	20	25	14-15	25-26	15-16	23-24	27-28	19-20	AUG 25-26
Snow, Ice pellets													
-Total	9.1	T	0.1	0.0	0.0	0.0	0.0	0.0	0.0	T	0.6	15.9	25.7
-Greatest (24 hrs)	4.0	T	0.1	0.0	0.0	0.0	0.0	0.0	0.0	T	0.6	11.4	11.4
-Date	9-10	21	1							20	29	14-15	DEC 14-15
WIND:													
Resultant													
-Direction (!!)	275	040	084	032	159	241	195	198	257	260	237	268	237
-Speed (mph)	3.7	2.2	3.6	1.6	2.5	2.6	4.3	1.4	2.4	3.7	2.2	3.7	1.2
Average Speed (mph)	9.3	9.2	11.3	9.4	10.4	8.9	8.4	8.4	7.2	9.5	10.4	11.4	9.5
Fastest Mile													
-Direction (!!)	NW	NE	NW	NW	SW	NW	SW	N	NW	W	NW	NW	N
-Speed (mph)	30	32	30	30	37	24	30	63	22	26	30	41	63
-Date	22	28	1	1	20	26	6	21	28	5	19	15	AUG 21
Peak Gust													
-Direction (!!)	NW	N	NW	NW	SW	NW	SW	N	NW	NW	NW	NW	N
-Speed (mph)	47	47	46	40	49	32	37	81	31	44	38	49	81
-Date	22	8	1	1	20	26	29	21	28	2	19	15	AUG 21

(!!) See Reference Notes on Page 6B

NORMALS, MEANS, AND EXTREMES

MOLINE, ILLINOIS

LATITUDE: 41°27'N LONGITUDE: 90°31' W ELEVATION: FT. GRND 582 BARO 605 TIME ZONE: CENTRAL WBAN: 14923

	(a)	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:														
Normals														
-Daily Maximum		28.0	33.7	44.8	61.1	72.5	82.1	85.4	83.6	76.2	64.8	48.0	34.3	59.5
-Daily Minimum		11.0	16.4	26.5	39.6	50.1	59.9	64.3	62.1	53.2	42.1	30.0	18.4	39.5
-Monthly		19.5	25.1	35.7	50.4	61.3	71.0	74.9	72.9	64.7	53.5	39.0	26.4	49.5
Extremes														
-Record Highest	55	65	71	88	93	104	104	105	106	100	92	80	69	106
-Year		1950	1976	1986	1986	1934	1934	1940	1936	1939	1963	1933	1970	AUG 1936
-Record Lowest	55	-27	-25	-19	7	26	39	46	40	24	16	-9	-22	-27
-Year		1979	1979	1960	1982	1966	1972	1971	1986	1942	1952	1976	1963	JAN 1979
NORMAL DEGREE DAYS:														
Heating (base 65°F)		1411	1117	908	438	177	20	0	5	75	370	780	1197	6498
Cooling (base 65°F)		0	0	0	0	62	200	307	250	66	14	0	0	899
% OF POSSIBLE SUNSHINE	44	48	49	49	53	56	62	68	66	62	58	42	40	54
MEAN SKY COVER (tenths)														
Sunrise - Sunset	45	6.6	6.4	6.8	6.5	6.3	6.0	5.3	5.4	5.2	5.3	6.7	6.8	6.1
MEAN NUMBER OF DAYS:														
Sunrise to Sunset														
-Clear	54	7.9	7.1	6.5	6.6	7.4	7.3	10.2	10.2	11.8	11.6	7.4	6.9	100.8
-Partly Cloudy	54	7.0	6.5	7.9	8.6	9.2	10.6	11.9	10.9	7.7	7.7	6.8	6.2	100.9
-Cloudy	54	16.2	14.6	16.6	14.7	14.4	12.1	8.9	9.9	10.5	11.8	15.8	17.9	163.5
Precipitation .01 inches or more	55	9.1	7.9	11.2	10.9	12.0	10.3	9.6	8.8	8.7	7.7	8.4	9.3	113.8
Snow, Ice pellets 1.0 inches or more	55	2.7	2.0	1.9	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.7	2.3	9.9
Thunderstorms	54	0.3	0.5	2.1	4.5	6.8	8.3	8.5	7.1	4.4	2.4	1.2	0.8	47.0
Heavy Fog Visibility 1/4 mile or less	53	2.2	2.0	2.0	0.7	0.8	0.6	0.8	2.1	1.7	2.0	1.2	1.9	18.0
Temperature °F														
-Maximum														
90° and above	27	0.0	0.0	0.0	0.1	1.3	5.1	8.5	5.8	1.7	0.1	0.0	0.0	22.7
32° and below	27	19.3	12.5	3.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	2.1	13.0	50.7
-Minimum														
32° and below	27	29.7	25.2	20.7	7.2	0.6	0.0	0.0	0.0	0.2	5.5	18.4	27.1	134.6
0° and below	27	8.8	4.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.7	17.4
AVG. STATION PRESS. (mb)	15	997.6	997.0	993.6	992.9	992.3	992.6	994.1	995.2	995.8	996.5	996.2	996.8	995.0
RELATIVE HUMIDITY (%)														
Hour 00 (Local Time)	27	72	73	74	72	75	77	82	84	83	76	75	76	77
Hour 06 (Local Time)	27	73	75	77	78	80	80	85	89	87	81	79	78	80
Hour 12 (Local Time)	27	65	63	60	55	53	53	57	58	57	55	63	69	59
Hour 18 (Local Time)	27	68	66	62	54	53	53	59	62	66	64	69	73	62
PRECIPITATION (inches):														
Water Equivalent														
-Normal		1.64	1.30	2.77	3.97	4.21	4.32	4.88	3.76	3.74	2.70	1.96	1.92	37.17
-Maximum Monthly	58	4.39	2.80	7.43	11.30	11.43	8.83	11.39	15.23	14.18	9.41	6.47	4.99	15.23
-Year		1974	1985	1973	1973	1974	1974	1969	1987	1970	1941	1934	1982	AUG 1987
-Minimum Monthly	58	0.31	0.17	0.31	0.68	0.55	1.02	1.02	0.35	0.02	0.01	0.29	0.23	0.01
-Year		1961	1933	1958	1946	1928	1963	1955	1971	1979	1964	1933	1929	OCT 1964
-Maximum in 24 hrs	58	2.07	1.90	2.42	5.81	3.68	5.02	5.41	5.13	6.29	4.89	2.73	3.38	6.29
-Year		1960	1948	1985	1973	1970	1967	1963	1987	1961	1954	1961	1942	SEP 1961
Snow, Ice pellets														
-Maximum Monthly	56	26.7	19.3	19.8	13.0	0.3				0.1	6.6	15.6	21.7	26.7
-Year		1979	1975	1972	1982	1935				1942	1967	1974	1978	JAN 1979
-Maximum in 24 hrs	54	16.4	10.1	11.0	8.2	0.3				0.1	6.5	8.5	11.4	16.4
-Year		1971	1975	1972	1970	1935				1942	1967	1975	1987	JAN 1971
WIND:														
Mean Speed (mph)	44	10.9	10.9	12.1	12.2	10.4	9.3	7.7	7.3	8.2	9.3	10.8	10.7	10.0
Prevailing Direction through 1963		WNW	WNW	WNW	NW	E	S	E	E	S	S	WNW	WNW	WNW
Fastest Mile														
-Direction (!!!)	58	SW	NW	SW	SW	SW	SW	W	N	NW	SW	W	SW	SW
-Speed (MPH)	58	56	58	66	73	68	77	65	63	66	56	60	61	77
-Year		1946	1948	1954	1947	1955	1947	1953	1987	1945	1949	1952	1947	JUN 1947
Peak Gust														
-Direction (!!!)	4	NW	N	SW	SW	SW	NW	NW	N	NW	SW	W	NW	N
-Speed (mph)	4	54	47	58	69	56	48	52	81	49	61	51	56	81
-Date		1986	1987	1985	1984	1985	1984	1984	1987	1984	1984	1984	1985	AUG 1987

(!!!) See Reference Notes on Page 6B.

PRECIPITATION (inches)

MOLINE, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1958	1.26	0.49	0.31	2.53	3.96	3.77	4.62	1.09	3.00	1.75	1.17	0.50	24.45
1959	1.41	1.77	3.06	4.75	5.31	3.62	4.48	3.90	4.29	5.59	1.50	2.42	42.10
1960	3.43	2.78	1.28	4.89	3.98	5.40	3.40	3.97	3.42	4.91	1.11	0.88	39.45
1961	0.31	1.20	4.48	2.19	1.98	3.69	7.63	2.37	11.00	4.53	4.94	1.58	45.90
1962	2.08	1.84	2.42	2.44	6.10	1.48	6.73	1.95	2.90	4.15	1.21	0.55	33.85
1963	0.91	0.37	3.29	4.24	2.36	1.02	8.78	4.02	2.38	0.63	1.84	0.94	30.78
1964	1.59	0.73	4.02	6.37	2.68	3.89	5.31	2.41	3.99	0.01	3.40	1.27	35.67
1965	4.08	0.97	2.52	7.92	4.04	2.07	4.78	9.31	8.27	0.88	1.93	2.82	49.59
1966	2.01	0.89	0.85	3.96	6.39	4.25	7.74	0.77	2.80	4.38	1.12	2.52	37.68
1967	2.00	1.11	1.68	4.91	1.70	8.15	4.15	3.62	4.99	6.23	2.26	1.56	42.36
1968	0.80	0.32	1.96	3.57	2.59	3.70	3.91	2.16	5.70	1.09	3.29	2.76	31.85
1969	3.28	0.21	2.25	3.11	3.40	6.97	11.39	2.00	2.50	4.63	0.53	1.52	41.79
1970	0.54	0.57	2.62	4.66	11.07	3.25	6.27	3.61	14.18	1.75	1.25	1.95	51.72
1971	1.79	1.57	1.99	1.86	3.14	2.36	11.22	0.35	4.54	2.64	2.21	4.77	38.44
1972	1.19	1.24	3.73	5.19	4.24	8.66	3.79	8.20	3.29	2.39	2.75	1.98	46.65
1973	2.53	1.94	7.43	11.30	6.96	6.58	2.63	2.30	6.74	3.06	1.15	3.74	56.36
1974	4.39	1.57	2.94	5.08	11.43	8.83	1.73	3.37	1.08	1.99	2.59	1.83	46.83
1975	1.50	1.75	3.30	2.88	3.23	3.50	2.71	3.23	1.99	0.90	2.98	0.98	28.95
1976	0.88	1.11	3.67	4.21	4.13	2.02	3.34	0.60	1.89	2.13	0.65	0.34	24.97
1977	0.87	0.62	4.61	1.57	2.66	5.18	6.04	6.98	4.80	4.09	2.78	1.76	41.96
1978	0.59	0.67	0.78	3.02	4.65	3.50	3.24	2.47	3.91	1.95	3.32	3.17	31.27
1979	2.72	1.02	2.77	4.01	2.86	2.85	4.40	6.94	0.02	2.51	2.13	2.27	34.50
1980	1.31	1.55	1.74	2.34	4.01	4.97	3.46	9.09	2.94	1.63	0.70	2.75	36.49
1981	0.32	2.45	0.69	4.48	1.48	5.51	3.07	6.90	4.20	4.42	2.42	0.72	36.66
1982	2.08	0.45	3.85	3.33	5.03	3.61	8.83	2.89	1.94	3.38	3.64	4.99	44.02
1983	0.55	1.50	2.88	4.88	2.06	5.21	2.79	0.96	5.30	2.36	5.78	2.55	36.82
1984	0.84	0.79	3.45	4.31	4.97	3.75	4.63	1.31	2.32	6.60	2.91	3.51	39.39
1985	1.04	2.80	4.71	2.14	3.46	2.26	3.33	2.76	1.71	8.54	6.35	2.21	41.31
1986	0.38	2.53	1.35	3.15	5.54	5.10	6.34	3.24	5.63	4.23	1.03	1.95	40.47
1987	0.91	0.89	2.57	1.49	3.35	1.54	1.91	15.23	1.11	0.79	3.33	4.46	37.58
Record Mean	1.54	1.30	2.62	3.66	3.98	4.35	4.23	3.75	3.66	2.81	2.24	1.87	36.00

See Reference Notes on Page 6B.

AVERAGE TEMPERATURE (deg. F)

MOLINE, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1958	22.2	16.7	35.7	50.5	62.2	66.3	71.3	73.5	64.4	56.0	42.0	22.2	48.6
1959	15.7	25.7	36.9	49.4	65.3	72.0	73.2	77.2	66.3	49.9	31.4	34.7	49.8
#1960	25.7	22.3	19.9	53.4	58.9	68.5	72.8	73.8	68.6	53.8	41.5	23.7	48.6
1961	21.1	30.7	39.3	44.3	58.1	71.9	74.2	73.9	66.1	55.4	40.8	23.0	49.9
1962	16.2	23.7	32.6	49.3	67.9	70.6	71.6	72.9	61.7	55.2	39.0	23.2	48.7
1963	9.7	17.9	41.1	52.9	60.0	73.5	74.8	70.8	64.9	64.4	43.1	13.8	48.9
1964	28.4	27.0	34.4	51.5	66.3	72.3	76.6	70.8	65.6	50.7	44.2	24.8	51.1
1965	21.4	25.7	26.9	49.2	65.9	69.6	74.9	71.1	63.5	53.6	40.7	34.5	49.8
1966	14.3	24.8	39.2	47.0	56.3	70.5	77.9	70.6	62.9	52.5	41.7	28.1	48.8
1967	26.0	18.7	39.0	51.6	56.4	70.9	71.4	67.7	62.1	52.1	36.1	28.5	48.4
1968	21.0	22.7	41.9	51.3	57.2	72.1	73.1	73.5	63.1	53.2	37.3	24.5	49.3
1969	17.9	27.9	32.2	51.6	61.7	67.1	75.0	73.7	64.9	51.7	37.9	24.3	48.8
1970	13.1	24.7	33.6	51.8	64.9	70.7	75.7	72.9	65.2	53.9	39.2	28.9	49.5
1971	14.8	25.9	34.7	50.9	58.0	76.6	70.7	71.9	68.7	59.9	40.0	31.6	50.3
1972	18.6	20.7	36.0	48.0	63.0	69.4	74.6	74.0	66.7	50.2	37.3	22.3	48.4
1973	27.1	28.7	45.4	49.7	57.6	72.3	74.9	75.1	65.7	57.3	40.4	23.7	51.5
1974	21.6	26.8	38.5	53.3	58.8	67.5	77.3	70.3	60.4	53.7	40.1	28.6	49.8
1975	24.9	25.0	30.6	45.1	63.8	72.3	75.0	75.1	60.9	56.2	45.0	30.3	50.4
1976	19.1	35.2	41.2	52.9	57.5	70.5	75.8	71.8	63.0	46.8	30.1	19.6	48.6
1977	8.2	27.1	43.6	56.6	68.9	70.0	77.5	71.0	65.5	51.2	38.7	21.7	50.0
1978	12.4	14.1	33.0	50.8	60.2	71.0	74.0	73.2	69.2	51.5	39.2	22.7	47.6
1979	6.3	13.2	36.3	47.4	61.9	71.2	73.5	72.0	64.3	52.1	37.0	31.7	47.2
1980	23.4	19.2	33.5	49.1	62.7	69.2	77.6	75.8	65.7	48.6	39.7	26.6	49.3
1981	23.4	27.1	39.4	54.3	57.5	71.0	73.3	71.2	63.5	49.9	41.1	25.3	49.7
1982	10.6	21.4	34.6	44.7	66.1	66.2	75.4	71.3	64.2	54.7	39.2	35.3	48.7
1983	26.9	32.0	38.9	45.5	57.8	72.9	79.4	79.6	65.6	53.1	42.9	14.0	50.7
1984	19.6	34.5	31.2	49.1	58.2	73.6	73.1	75.2	62.9	55.1	39.3	31.1	50.2
1985	14.3	21.8	42.5	57.1	64.9	69.4	74.2	69.7	66.1	53.6	35.2	14.9	48.6
1986	25.1	22.9	42.5	54.6	63.0	71.7	77.6	68.3	67.3	53.4	34.8	30.0	50.9
1987	25.2	34.4	42.2	52.6	66.8	74.6	79.4	72.9	64.4	47.4	44.0	31.0	52.9
Record Mean	21.2	26.1	36.5	50.3	61.3	71.2	75.3	73.1	65.0	53.7	39.0	26.6	49.9
Max	29.7	34.8	45.7	61.1	72.4	82.2	86.3	84.1	76.5	65.1	48.1	34.5	60.0
Min	12.6	17.4	27.2	39.5	50.1	60.2	64.3	62.1	53.5	42.3	30.0	18.7	39.8

See Reference Notes on Page 6B.

HEATING DEGREE DAYS Base 65 deg. F MOLINE, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1958-59	4	21	93	289	685	1319	1523	1096	861	462	114	8	6475
#1959-60	4	1	100	462	1002	932	1212	1229	1392	376	203	13	6926
1960-61	2	1	55	348	700	1277	1355	954	789	614	242	12	6349
1961-62	1	0	121	309	722	1297	1510	1150	999	481	78	22	6690
1962-63	8	1	149	342	774	1292	1717	1315	734	370	186	15	6903
1963-64	0	16	83	108	653	1585	1129	1097	942	405	71	20	6109
1964-65	3	24	100	437	624	1241	1344	1096	1174	471	86	3	6603
1965-66	0	21	115	363	722	939	1568	1119	794	533	287	31	6492
1966-67	0	6	116	386	695	1137	1202	1289	802	404	305	10	6352
1967-68	21	33	136	424	860	1127	1354	1221	711	409	248	18	6562
1968-69	8	15	96	404	826	1247	1458	1032	1010	398	172	57	6723
1969-70	0	0	80	445	805	1253	1607	1120	967	419	118	21	6835
1970-71	0	2	92	350	764	1111	1556	1088	931	425	242	0	6561
1971-72	17	3	94	195	740	1026	1434	1280	893	504	155	25	6366
1972-73	8	7	80	459	824	1319	1170	1013	598	452	223	1	6154
1973-74	0	0	78	258	733	1274	1338	1061	812	360	235	32	6181
1974-75	0	8	180	349	739	1122	1235	1114	1058	593	117	14	6529
1975-76	9	0	162	297	594	1072	1413	855	731	385	235	2	5755
1976-77	0	5	123	569	1038	1403	1755	1059	656	286	54	15	6963
1977-78	0	5	50	420	780	1337	1625	1417	986	423	229	13	7285
1978-79	1	4	59	415	767	1305	1820	1445	884	521	172	12	7405
1979-80	5	22	95	415	831	1027	1280	1324	966	481	129	27	6602
1980-81	0	1	77	503	755	1180	1281	1055	783	322	253	3	6213
1981-82	12	9	91	459	710	1226	1682	1214	936	604	62	35	7040
1982-83	0	14	110	333	765	916	1175	917	802	578	228	17	5855
1983-84	1	0	110	377	654	1578	1406	880	1039	482	225	2	6754
1984-85	3	4	171	303	761	1042	1568	1203	692	293	66	25	6131
1985-86	0	4	133	347	888	1546	1231	1174	705	338	104	9	6479
1986-87	0	30	55	358	898	1078	1227	850	701	385	101	4	5687
1987-88	0	23	84	540	627	1046							

See Reference Notes on Page 6B.

COOLING DEGREE DAYS Base 65 deg. F MOLINE, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL
1969	0	0	0	1	77	130	320	276	86	41	0	0	931
1970	0	0	0	32	119	198	341	256	105	15	0	0	1066
1971	0	0	0	9	32	355	203	225	212	44	0	0	1080
1972	0	0	0	3	102	165	312	294	138	6	0	0	1020
1973	0	0	0	2	2	226	312	323	103	27	0	0	995
1974	0	0	0	17	50	113	389	180	45	3	0	0	797
1975	0	0	0	1	85	241	325	319	44	29	0	0	1044
1976	0	0	0	26	12	175	341	221	72	13	0	0	860
1977	0	0	0	44	182	173	397	199	73	0	0	0	1068
1978	0	0	1	0	87	202	288	267	195	5	0	0	1045
1979	0	0	0	0	83	206	272	245	79	22	0	0	907
1980	0	0	0	11	65	158	395	343	107	1	0	0	1080
1981	0	0	0	8	27	191	275	209	50	0	0	0	760
1982	0	0	0	0	102	78	327	215	95	20	0	0	837
1983	0	0	0	1	12	260	453	459	138	14	0	0	1337
1984	0	0	0	9	21	268	261	327	116	3	0	0	1005
1985	0	0	0	64	71	165	292	154	172	0	0	0	918
1986	0	0	12	31	48	216	396	143	133	4	0	0	983
1987	0	0	0	20	162	298	453	277	71	0	3	0	1284

See Reference Notes on Page 6B.

SNOWFALL (inches)

MOLINE, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1958-59	0.0	0.0	0.0	0.0	0.9	8.1	15.1	3.6	13.9	1.7	0.0	0.0	43.3
1959-60	0.0	0.0	0.0	T	9.1	9.9	8.5	19.3	14.7	T	T	0.0	61.5
1960-61	0.0	0.0	0.0	0.0	T	5.5	3.4	2.5	2.4	2.5	0.0	0.0	16.3
1961-62	0.0	0.0	0.0	0.0	T	13.6	11.2	15.8	7.1	0.2	0.0	0.0	47.9
1962-63	0.0	0.0	0.0	0.2	T	3.1	14.7	5.8	7.3	0.0	0.0	0.0	31.1
1963-64	0.0	0.0	0.0	0.0	T	9.7	5.3	5.5	13.9	T	0.0	0.0	34.4
1964-65	0.0	0.0	0.0	0.0	2.1	11.7	10.2	7.4	16.2	0.0	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.3	5.7	6.0	0.8	0.7	0.1	T	0.0	13.6
1966-67	0.0	0.0	0.0	0.0	T	7.2	14.4	13.2	2.2	1.1	0.0	0.0	38.1
1967-68	0.0	0.0	0.0	6.6	0.3	3.2	8.6	2.8	1.1	T	0.0	0.0	22.6
1968-69	0.0	0.0	0.0	T	5.9	5.4	6.2	0.9	5.6	0.0	T	0.0	24.0
1969-70	0.0	0.0	0.0	0.0	1.5	15.4	7.2	6.1	12.7	8.3	0.0	0.0	51.2
1970-71	0.0	0.0	0.0	0.0	0.2	2.2	17.7	2.6	7.8	T	0.0	0.0	30.5
1971-72	0.0	0.0	0.0	0.0	5.9	0.3	11.8	13.7	19.8	2.6	0.0	0.0	54.1
1972-73	0.0	0.0	0.0	2.0	6.7	6.6	0.4	8.6	0.5	0.9	0.0	0.0	25.7
1973-74	0.0	0.0	0.0	0.0	T	11.4	12.7	7.4	3.0	0.6	0.0	0.0	35.1
1974-75	0.0	0.0	0.0	0.0	15.6	8.8	7.6	19.3	12.2	6.2	0.0	0.0	69.7
1975-76	0.0	0.0	0.0	0.0	9.9	2.5	8.6	0.1	0.6	0.0	T	0.0	21.7
1976-77	0.0	0.0	0.0	0.0	7.7	4.1	12.3	2.5	10.8	1.0	0.0	0.0	38.4
1977-78	0.0	0.0	0.0	0.0	4.8	20.8	6.1	6.8	6.5	T	0.0	0.0	45.0
1978-79	0.0	0.0	0.0	0.0	7.1	21.7	26.7	4.5	3.4	0.6	0.0	0.0	64.0
1979-80	0.0	0.0	0.0	T	1.9	0.8	4.2	13.1	7.5	9.5	0.0	0.0	37.0
1980-81	0.0	0.0	0.0	2.4	1.1	4.5	5.3	5.6	T	0.0	0.0	0.0	18.9
1981-82	0.0	0.0	0.0	T	3.3	4.3	13.6	4.5	6.6	13.0	0.0	0.0	45.3
1982-83	0.0	0.0	0.0	0.0	T	0.5	4.7	6.2	12.7	0.7	0.0	0.0	24.8
1983-84	0.0	0.0	0.0	T	0.9	18.9	9.9	1.9	13.6	0.1	0.0	0.0	45.3
1984-85	0.0	0.0	0.0	0.0	T	9.3	13.4	7.5	0.2	T	0.0	0.0	30.4
1985-86	0.0	0.0	0.0	0.0	3.1	11.5	3.7	7.8	0.2	0.4	0.0	0.0	26.7
1986-87	0.0	0.0	0.0	0.0	2.2	0.2	9.1	T	0.1	0.0	0.0	0.0	11.6
1987-88	0.0	0.0	0.0	T	0.6	15.9							
Record Mean	0.0	0.0	T	0.2	2.3	7.2	8.1	5.7	6.3	1.1	T	0.0	30.9

See Reference Notes on Page 6B.

REFERENCE NOTES

MOLINE, ILLINOIS

GENERAL
T - TRACE AMOUNT.
BLANK ENTRIES DENOTE MISSING/UNREPORTED DATA.
# INDICATES A STATION OR INSTRUMENT RELOCATION.
SEE STATION LOCATION TABLE ON PAGE 8.

SPECIFIC
PAGE 2
PM - INCLUDES LAST DAY OF PREVIOUS MONTH

PAGE 3
(a) - LENGTH OF RECORD IN YEARS, ALTHOUGH INDIVIDUAL MONTHS MAY BE MISSING.
* LESS THAN .05
NORMALS - BASED ON THE 1951-1980 RECORD PERIOD.
EXTREMES - DATES ARE THE MOST RECENT OCCURRENCE
WIND DIR.- NUMERALS SHOW TENS OF DEGRESS CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM.
RESULTANT DIRECTIONS ARE GIVEN TO WHOLE DEGREES.

PAGE 4B
MAX AND MIN ARE LONG TERM MEAN DAILY MAXIMUM AND MEAN DAILY MINIMUM TEMPERATURES.

EXCEPTIONS

PAGES 4A, 4B, 6A
RECORD MEANS ARE THROUGH THE CURRENT YEAR,
BEGINNING IN 1930 FOR TEMPERATURE
1927 FOR PRECIPITATION
1933 FOR SNOWFALL

MOLINE, ILLINOIS

The locality is in the heart of the Corn Belt. Agricultural crops include many important staple products in addition to corn. Cattle, hogs, horses, and poultry produced in Iowa and Illinois rank high in the nation. Close to the Mississippi River there is large scale truck gardening and considerable dairying. Field production of grains and livestock attains greater development farther away from the large streams, where the countryside is rolling prairie. Damaging droughts are not common. This, together with the variety of agricultural products, has led to designating the section as the Bread Basket of America.

The climate is favorable for many industries as evidenced by the large number and variety of manufacturing and other enterprises which have located and developed in the community. Among these are some of the largest producers of agricultural machinery in the world.

This area has a temperate continental climate, with a wide temperature range throughout the year. There are some intensely hot, unusually humid, periods in summer and severely cold periods in winter. Maxima of 90 degrees or more have occurred in summer as frequently as 55 days and zero or lower readings have occurred during every winter.

Freezing temperatures have occurred as late in spring as late May and as early in autumn as late September. Precipitation is usually well distributed throughout the year with the greatest amounts falling during the 177-day average crop growing season. Substantial weather changes frequently occur at three or four day intervals, as a direct result of proximity to some of the most important storm tracks.

STATION LOCATION

MOLINE, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Sunshine Switch	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Automatic Observing Equipment *	Remarks
NE Corner, Moline AP 4.5 miles S of Moline Post Office	10/1/26	12/27/39	NA	41° 27'	90° 31'	589	53	3	3				3			
Administration Building Quad City Airport	12/27/39	4/3/61	1200 feet W	41° 27'	90° 31'	589 h582	62 f25	5 b36 c5 d36	5 a36 c5 d36	Unk		4 e5	15	g4		a - Moved to roof site 12/1/54. b - Moved to roof site 5/31/55. c - Moved to field site 6/7/56. d - Moved to roof site 4/16/58. e - Effective 4/16/58. f - Moved to field site 11/13/58. g - Telepsychrometer (5') 6/7/56-3/1/60. Hygro. comm. 3/1/60. h - Effective 3/1/60.
Terminal Building Quad City Airport	4/4/61	Present	200 feet SE	41° 27'	90° 31'	582	i25	17	17	27	NA k16	i5 j16	15	i4 m4	NA	i - Not moved 4/4/61. j - Effective 7/22/63. k - Added 6/1/64. m - Type change 6/27/85.

* Type
M = AMOS
T = AUTOB

SUBSCRIPTION:
Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801

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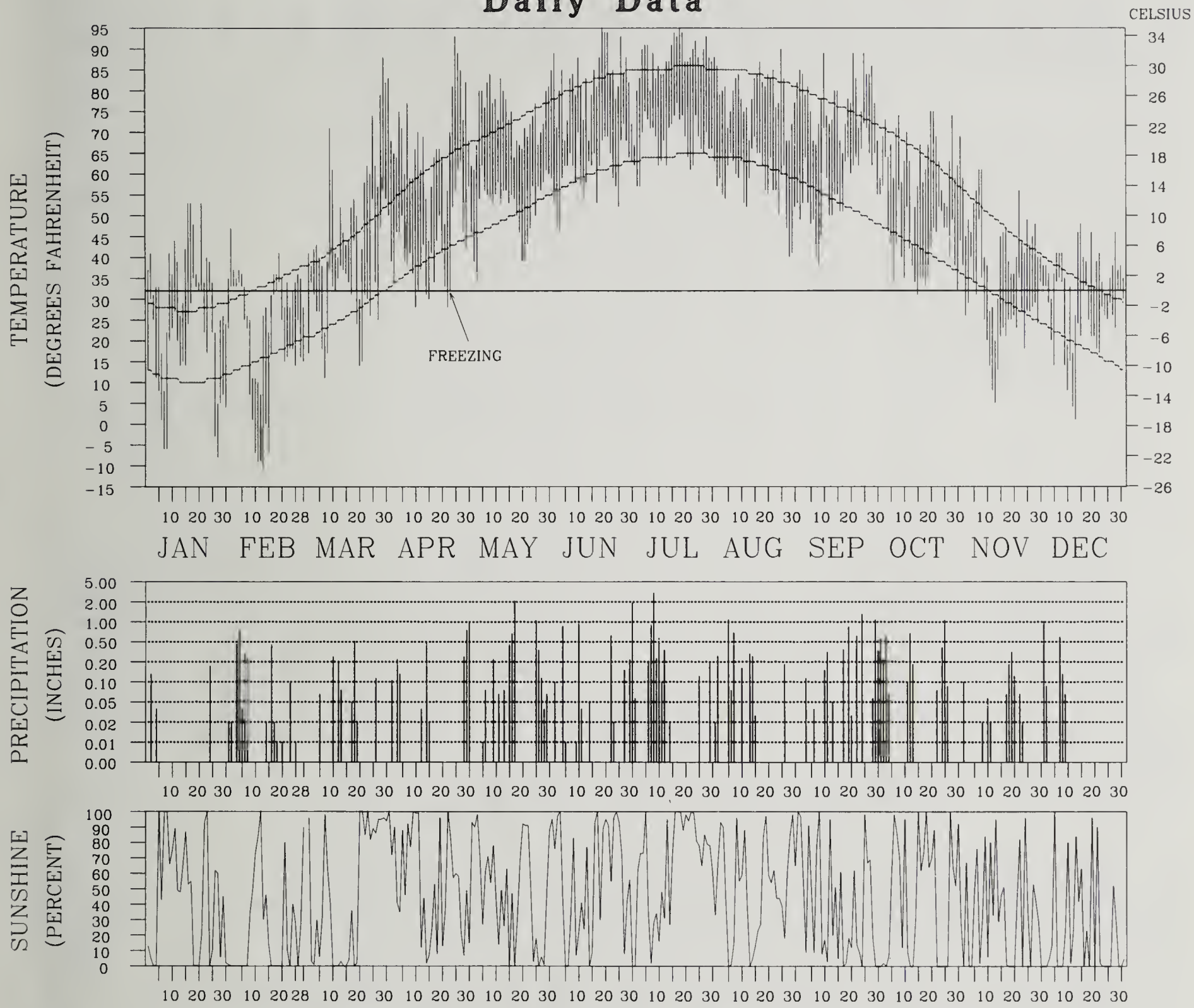
1986 LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

MOLINE,
ILLINOIS

Daily Data



TEMPERATURE DEPICTS NORMAL MAXIMUM, NORMAL MINIMUM AND ACTUAL DAILY HIGH AND LOW VALUES (FAHRENHEIT)
PRECIPITATION IS MEASURED IN INCHES, SCALE IS NON-LINEAR
SUNSHINE IS PERCENT OF THE POSSIBLE SUNSHINE

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER, ASHEVILLE, NORTH CAROLINA, 28801

Kenneth D. Wadlan
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

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METEOROLOGICAL DATA FOR 1986

MOLINE, ILLINOIS

LATITUDE: 41°27' N LONGITUDE: 90°31' W ELEVATION: FT. GRND 582 BARO 605 TIME ZONE: CENTRAL WBAN: 14923

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:													
Averages													
-Daily Maximum	33.5	29.5	52.7	67.5	73.9	82.3	87.5	79.2	77.4	63.4	43.6	36.2	60.6
-Daily Minimum	16.6	16.3	32.2	41.6	52.1	61.1	67.6	57.4	57.1	43.3	26.0	23.8	41.3
-Monthly	25.1	22.9	42.5	54.6	63.0	71.7	77.6	68.3	67.3	53.4	34.8	30.0	50.9
-Monthly Dewpt.	17.3	17.9	30.4	39.4	52.0	60.8	68.2	59.0	59.3	46.4	27.7	23.9	41.9
Extremes													
-Highest	53	47	88	93	85	95	95	90	89	75	61	48	95
-Date	21	1	29	25	31	19	18	25	25	21	8	15	JUL 18
-Lowest	-8	-11	11	28	34	46	57	40	38	31	5	1	-11
-Date	27	13	7	22	3	3	3	28	8	15	13	13	FEB 13
DEGREE DAYS BASE 65 °F:													
Heating	1231	1174	705	338	104	9	0	30	55	358	898	1078	5980
Cooling	0	0	12	31	48	216	396	143	133	4	0	0	983
% OF POSSIBLE SUNSHINE	43	25	50	53	50	54	66	52	38	44	34	24	46
AVG. SKY COVER (tenths)													
Sunrise - Sunset	6.9	7.9	6.8	6.1	6.5	6.1	4.9	6.0	7.3	6.1	6.7	7.6	6.6
Midnight - Midnight	6.5	7.5	6.5	5.5	6.2	5.9	4.5	5.2	6.7	5.6	6.4	6.9	6.1
NUMBER OF DAYS:													
Sunrise to Sunset													
-Clear	5	3	9	8	7	8	12	10	7	11	7	5	92
-Partly Cloudy	12	5	4	8	10	9	11	8	3	5	8	5	88
-Cloudy	14	20	18	14	14	13	8	13	20	15	15	21	185
Precipitation .01 inches or more	4	13	8	9	13	12	12	9	13	11	10	5	119
Snow, Ice pellets 1.0 inches or more	2	3	0	0	0	0	0	0	0	0	0	0	5
Thunderstorms	1	0	0	3	10	9	10	6	5	1	0	0	45
Heavy Fog, visibility 1/4 mile or less	0	5	2	0	3	3	0	3	2	1	0	5	24
Temperature °F													
-Maximum													
90° and above	0	0	0	1	0	4	12	1	0	0	0	0	18
32° and below	11	14	2	0	0	0	0	0	0	0	4	6	37
-Minimum													
32° and below	29	22	16	6	0	0	0	0	0	2	23	25	123
0° and below	4	6	0	0	0	0	0	0	0	0	0	0	10
AVG. STATION PRESS. (mb)	997.6	994.6	994.2	992.2	993.2	993.2	993.6	996.6	994.9	997.3	999.3	999.7	995.6
RELATIVE HUMIDITY (%)													
Hour 00	75	82	71	67	81	79	86	88	89	89	80	83	81
Hour 06 (Local Time)	75	85	78	78	86	84	89	91	91	92	86	85	85
Hour 12 (Local Time)	64	73	55	49	61	59	60	58	65	65	67	73	62
Hour 18 (Local Time)	71	76	59	46	59	58	63	62	72	76	72	78	66
PRECIPITATION (inches):													
Water Equivalent													
-Total	0.38	2.53	1.35	3.15	5.54	5.10	6.34	3.24	5.63	4.23	1.03	1.95	40.47
-Greatest (24 hrs)	0.18	1.22	0.58	1.80	2.81	2.19	3.70	1.22	1.41	1.12	0.48	1.08	3.70
-Date	24	3- 4	17-18	29-30	16-17	29-30	7- 8	5- 6	24	25-26	19-20	1- 2	JUL 7- 8
Snow, Ice pellets													
-Total	3.7	7.8	0.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.2	14.5
-Greatest (24 hrs)	1.7	5.5	0.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.2	5.5
-Date	24	6- 7	10	14-15							19-20	9	FEB 6- 7
WIND:													
Resultant													
-Direction (!!)	262	343	235	232	051	180	199	231	184	225	234	263	238
-Speed (mph)	5.0	2.7	4.5	2.3	1.0	0.8	3.6	1.2	2.6	0.6	2.4	3.5	1.8
Average Speed (mph)	11.1	9.3	12.6	11.6	9.1	8.9	8.5	6.7	8.1	8.8	10.5	9.2	9.5
Fastest Mile													
-Direction (!!)	NW	NW	NW	N	N	W	NW	W	SW	W	SW	NW	NW
-Speed (mph)	42	24	38	40	38	28	30	25	30	26	31	31	42
-Date	12	22	26	29	16	11	6	7	10	14	8	3	JAN 12
Peak Gust													
-Direction (!!)	NW	NW	NW	N	N	N	W	W	SW	W	SW	NW	N
-Speed (mph)	54	31	47	59	54	36	40	35	48	35	46	40	59
-Date	12	22	26	29	16	4	6	7	10	14	8	9	APR 29

(!!) See Reference Notes on Page 6B

NORMALS, MEANS, AND EXTREMES

MOLINE, ILLINOIS

LATITUDE: 41°27'N LONGITUDE: 90°31' W ELEVATION: FT. GRND 582 BARO 605 TIME ZONE: CENTRAL WBAN: 14923

	(a)	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:														
Normals														
-Daily Maximum		28.0	33.7	44.8	61.1	72.5	82.1	85.4	83.6	76.2	64.8	48.0	34.3	59.5
-Daily Minimum		11.0	16.4	26.5	39.6	50.1	59.9	64.3	62.1	53.2	42.1	30.0	18.4	39.5
-Monthly		19.5	25.1	35.7	50.4	61.3	71.0	74.8	72.8	64.7	53.5	39.0	26.4	49.5
Extremes														
-Record Highest	54	65	71	88	93	104	104	105	106	100	92	80	69	106
-Year		1950	1976	1986	1986	1934	1934	1940	1936	1939	1963	1933	1970	AUG 1936
-Record Lowest	54	-27	-25	-19	7	26	39	46	40	24	16	-9	-22	-27
-Year		1979	1979	1960	1982	1966	1972	1971	1986	1942	1952	1976	1963	JAN 1979
NORMAL DEGREE DAYS:														
Heating (base 65°F)		1411	1117	908	438	177	20	0	5	75	370	780	1197	6498
Cooling (base 65°F)		0	0	0	0	62	200	307	250	66	14	0	0	899
% OF POSSIBLE SUNSHINE	43	48	49	50	53	56	62	68	66	63	58	42	40	55
MEAN SKY COVER (tenths)														
Sunrise - Sunset	44	6.6	6.4	6.8	6.6	6.3	6.0	5.3	5.3	5.2	5.3	6.7	6.8	6.1
MEAN NUMBER OF DAYS:														
Sunrise to Sunset														
-Clear	53	7.9	7.2	6.5	6.5	7.5	7.2	10.3	10.2	11.8	11.6	7.4	6.9	100.9
-Partly Cloudy	53	7.0	6.4	8.0	8.7	9.1	10.6	11.8	10.9	7.7	7.6	6.9	6.2	100.9
-Cloudy	53	16.1	14.6	16.6	14.8	14.5	12.2	8.9	9.9	10.5	11.7	15.8	17.9	163.5
Precipitation .01 inches or more	54	9.2	8.0	11.2	10.9	12.1	10.3	9.6	8.7	8.7	7.6	8.3	9.2	113.9
Snow, Ice pellets 1.0 inches or more	54	2.7	2.1	1.9	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.7	2.3	10.0
Thunderstorms	53	0.3	0.5	2.1	4.5	6.8	8.4	8.5	7.0	4.5	2.5	1.2	0.8	47.1
Heavy Fog Visibility 1/4 mile or less	52	2.3	2.1	2.0	0.7	0.8	0.6	0.8	2.1	1.7	2.0	1.2	1.9	18.2
Temperature °F														
-Maximum														
90° and above	26	0.0	0.0	0.0	0.1	1.2	4.9	8.1	5.7	1.8	0.1	0.0	0.0	21.9
32° and below	26	19.4	12.9	3.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	2.2	13.3	51.7
-Minimum														
32° and below	26	29.7	25.2	20.9	7.2	0.7	0.0	0.0	0.0	0.2	5.2	18.6	27.2	134.8
0° and below	26	9.0	4.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.8	17.9
AVG. STATION PRESS. (mb)	14	997.8	996.9	993.5	992.9	992.1	992.6	994.2	995.2	995.9	996.3	996.1	997.0	995.0
RELATIVE HUMIDITY (%)														
Hour 00 (Local Time)	26	72	73	74	72	75	77	82	84	82	77	75	76	77
Hour 06 (Local Time)	26	72	74	77	78	80	81	85	89	87	81	79	78	80
Hour 12 (Local Time)	26	64	63	60	55	53	53	57	58	57	55	63	69	59
Hour 18 (Local Time)	26	68	66	62	55	53	54	59	62	66	64	69	73	63
PRECIPITATION (inches):														
Water Equivalent														
-Normal		1.64	1.30	2.77	3.97	4.21	4.32	4.88	3.76	3.74	2.70	1.96	1.92	37.17
-Maximum Monthly	57	4.39	2.80	7.43	11.30	11.43	8.83	11.39	9.31	14.18	9.41	6.47	4.99	14.18
-Year		1974	1985	1973	1973	1974	1974	1969	1965	1970	1941	1934	1982	SEP 1970
-Minimum Monthly	57	0.31	0.17	0.31	0.68	0.55	1.02	1.02	0.35	0.02	0.01	0.29	0.23	0.01
-Year		1961	1933	1958	1946	1928	1963	1955	1971	1979	1964	1933	1929	OCT 1964
-Maximum in 24 hrs	57	2.07	1.90	2.42	5.81	3.68	5.02	5.41	4.60	6.29	4.89	2.73	3.38	6.29
-Year		1960	1948	1985	1973	1970	1967	1963	1951	1961	1954	1961	1942	SEP 1961
Snow, Ice pellets														
-Maximum Monthly	55	26.7	19.3	19.8	13.0	0.3				0.1	6.6	15.6	21.7	26.7
-Year		1979	1975	1972	1982	1935				1942	1967	1974	1978	JAN 1979
-Maximum in 24 hrs	53	16.4	10.1	11.0	8.2	0.3				0.1	6.5	8.5	9.0	16.4
-Year		1971	1975	1972	1970	1935				1942	1967	1975	1978	JAN 1971
WIND:														
Mean Speed (mph)	43	10.9	10.9	12.1	12.3	10.4	9.3	7.7	7.3	8.3	9.3	10.8	10.7	10.0
Prevailing Direction through 1963		WNW	WNW	WNW	NW	E	S	E	E	S	S	WNW	WNW	WNW
Fastest Mile														
-Direction (!!!)	57	SW	NW	SW	SW	SW	SW	W	SW	NW	SW	W	SW	SW
-Speed (MPH)	57	56	58	66	73	68	77	65	63	66	56	60	61	77
-Year		1946	1948	1954	1947	1955	1947	1953	1978	1945	1949	1952	1947	JUN 1947
Peak Gust														
-Direction (!!!)	3	NW	N	SW	SW	SW	NW	NW	NW	NW	SW	W	NW	SW
-Speed (mph)	3	54	41	58	69	56	48	52	48	49	61	51	56	69
-Date		1986	1984	1985	1984	1985	1984	1984	1985	1984	1984	1984	1985	APR 1984

(!!!) See Reference Notes on Page 6B.

PRECIPITATION (inches)

MOLINE, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1957	1.33	1.57	2.90	3.49	4.11	2.52	4.47	3.17	1.16	2.00	2.38	3.82	32.92
1958	1.26	0.49	0.31	2.53	3.96	3.77	4.62	1.09	3.00	1.75	1.17	0.50	24.45
1959	1.41	1.77	3.06	4.75	5.31	3.62	4.48	3.90	4.29	5.59	1.50	2.42	42.10
1960	3.43	2.78	1.28	4.89	3.98	5.40	3.40	3.97	3.42	4.91	1.11	0.88	39.45
1961	0.31	1.20	4.48	2.19	1.98	3.69	7.63	2.37	11.00	4.53	4.94	1.58	45.90
1962	2.08	1.84	2.42	2.44	6.10	1.48	6.73	1.95	2.90	4.15	1.21	0.55	33.85
1963	0.91	0.37	3.29	4.24	2.36	1.02	8.78	4.02	2.38	0.63	1.84	0.94	30.78
1964	1.59	0.73	4.02	6.37	2.68	3.89	5.31	2.41	3.99	0.01	3.40	1.27	35.67
1965	4.08	0.97	2.52	7.92	4.04	2.07	4.78	9.31	8.27	0.88	1.93	2.82	49.59
1966	2.01	0.89	0.85	3.96	6.39	4.25	7.74	0.77	2.80	4.38	1.12	2.52	37.68
1967	2.00	1.11	1.68	4.91	1.70	8.15	4.15	3.62	4.99	6.23	2.26	1.56	42.36
1968	0.80	0.32	1.96	3.57	2.59	3.70	3.91	2.16	5.70	1.09	3.29	2.76	31.85
1969	3.28	0.21	2.25	3.11	3.40	6.97	11.39	2.00	2.50	4.63	0.53	1.52	41.79
1970	0.54	0.57	2.62	4.66	11.07	3.25	6.27	3.61	14.18	1.75	1.25	1.95	51.72
1971	1.79	1.57	1.99	1.86	3.14	2.36	11.22	0.35	4.54	2.64	2.21	4.77	38.44
1972	1.19	1.24	3.73	5.19	4.24	8.66	3.79	8.20	3.29	2.39	2.75	1.98	46.65
1973	2.53	1.94	7.43	11.30	6.96	6.58	2.63	2.30	6.74	3.06	1.15	3.74	56.36
1974	4.39	1.57	2.94	5.08	11.43	8.83	1.73	3.37	1.08	1.99	2.59	1.83	46.83
1975	1.50	1.75	3.30	2.88	3.23	3.50	2.71	3.23	1.99	0.90	2.98	0.98	28.95
1976	0.88	1.11	3.67	4.21	4.13	2.02	3.34	0.60	1.89	2.13	0.65	0.34	24.97
1977	0.87	0.62	4.61	1.57	2.66	5.18	6.04	6.98	4.80	4.09	2.78	1.76	41.96
1978	0.59	0.67	0.78	3.02	4.65	3.50	3.24	2.47	3.91	1.95	3.32	3.17	31.27
1979	2.72	1.02	2.77	4.01	2.86	2.85	4.40	6.94	0.02	2.51	2.13	2.27	34.50
1980	1.31	1.55	1.74	2.34	4.01	4.97	3.46	9.09	2.94	1.63	0.70	2.75	36.49
1981	0.32	2.45	0.69	4.48	1.48	5.51	3.07	6.90	4.20	4.42	2.42	0.72	36.66
1982	2.08	0.45	3.85	3.33	5.03	3.61	8.83	2.89	1.94	3.38	3.64	4.99	44.02
1983	0.55	1.50	2.88	4.88	2.06	5.21	2.79	0.96	5.30	2.36	5.78	2.55	36.82
1984	0.84	0.79	3.45	4.31	4.97	3.75	4.63	1.31	2.32	6.60	2.91	3.51	39.39
1985	1.04	2.80	4.71	2.14	3.46	2.26	3.33	2.76	1.71	8.54	6.35	2.21	41.31
1986	0.38	2.53	1.35	3.15	5.54	5.10	6.34	3.24	5.63	4.23	1.03	1.95	40.47
Record Mean	1.55	1.31	2.62	3.69	3.99	4.40	4.27	3.55	3.71	2.84	2.22	1.82	35.98

See Reference Notes on Page 6B.

AVERAGE TEMPERATURE (deg. F)

MOLINE, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1957	16.6	32.5	37.0	50.4	59.6	70.4	76.7	73.2	61.9	49.8	38.1	32.8	49.9
1958	22.2	16.7	35.7	50.5	62.2	66.3	71.3	73.5	64.4	56.0	42.0	22.2	48.6
1959	15.7	25.7	36.9	49.4	65.3	72.0	73.2	77.2	66.3	49.9	31.4	34.7	49.8
#1960	25.7	22.3	19.9	53.4	58.9	68.5	72.8	73.8	68.6	53.8	41.5	23.7	48.6
1961	21.1	30.7	39.3	44.3	58.1	71.9	74.2	73.9	66.1	55.4	40.8	23.0	49.9
1962	16.2	23.7	32.6	49.3	67.9	70.6	71.6	72.9	61.7	55.2	39.0	23.2	48.7
1963	9.7	17.9	41.1	52.9	60.0	73.5	74.8	70.8	64.9	64.4	43.1	13.8	48.9
1964	28.4	27.0	34.4	51.5	66.3	72.3	76.6	70.8	65.6	50.7	44.2	24.8	51.1
1965	21.4	25.7	26.9	49.2	65.9	69.6	74.9	71.1	63.5	53.6	40.7	34.5	49.8
1966	14.3	24.8	39.2	47.0	56.3	70.5	77.9	70.6	62.9	52.5	41.7	28.1	48.8
1967	26.0	18.7	39.0	51.6	56.4	70.9	71.4	67.7	62.1	52.1	36.1	28.5	48.4
1968	21.0	22.7	41.9	51.3	57.2	72.1	73.1	73.5	63.1	53.2	37.3	24.5	49.3
1969	17.9	27.9	32.2	51.6	61.7	67.1	75.0	73.7	64.9	51.7	37.9	24.3	48.8
1970	13.1	24.7	33.6	51.8	64.9	70.7	75.7	72.9	65.2	53.9	39.2	28.9	49.5
1971	14.8	25.9	34.7	50.9	58.0	76.6	70.7	71.9	68.7	59.9	40.0	31.6	50.3
1972	18.6	20.7	36.0	48.0	63.0	69.4	74.6	74.0	66.7	50.2	37.3	22.3	48.4
1973	27.1	28.7	45.4	49.7	57.6	72.3	74.9	75.1	65.7	57.3	40.4	23.7	51.5
1974	21.6	26.8	38.5	53.3	58.8	67.5	77.3	70.3	60.4	53.7	40.1	28.6	49.8
1975	24.9	25.0	30.6	45.1	63.8	72.3	75.0	75.1	60.9	56.2	45.0	30.3	50.4
1976	19.1	35.2	41.2	52.9	57.5	70.5	75.8	71.8	63.0	46.8	30.1	19.6	48.6
1977	8.2	27.1	43.6	56.6	68.9	70.0	77.5	71.0	65.5	51.2	38.7	21.7	50.0
1978	12.4	14.1	33.0	50.8	60.2	71.0	74.0	73.2	69.2	51.5	39.2	22.7	47.6
1979	6.3	13.2	36.3	47.4	61.9	71.2	73.5	72.0	64.3	52.1	37.0	31.7	47.2
1980	23.4	19.2	33.5	49.1	62.7	69.2	77.6	75.8	65.7	48.6	39.7	26.6	49.3
1981	23.4	27.1	39.4	54.3	57.5	71.0	73.3	71.2	63.5	49.9	41.1	25.3	49.7
1982	10.6	21.4	34.6	44.7	66.1	66.2	75.4	71.3	64.2	54.7	39.2	35.3	48.7
1983	26.9	32.0	38.9	45.5	57.8	72.9	79.4	79.6	65.6	53.1	42.9	14.0	50.7
1984	19.6	34.5	31.2	49.1	58.2	73.6	73.1	75.2	62.9	55.1	39.3	31.1	50.2
1985	14.3	21.8	42.5	57.1	64.9	69.4	74.2	69.7	66.1	53.6	35.2	14.9	48.6
1986	25.1	22.9	42.5	54.6	63.0	71.7	77.6	68.3	67.3	53.4	34.8	30.0	50.9
Record Mean	21.1	25.9	36.3	50.3	61.2	71.1	75.2	73.1	65.0	53.8	39.0	26.6	49.9
Max	29.6	34.6	45.5	61.1	72.3	82.1	86.2	84.1	76.5	65.2	48.0	34.5	60.0
Min	12.5	17.3	27.1	39.5	50.0	60.1	64.2	62.0	53.5	42.4	29.9	18.6	39.8

See Reference Notes on Page 6B.

HEATING DEGREE DAYS Base 65 deg. F MOLINE, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1957-58	0	2	136	467	800	989	1319	1345	898	435	125	41	6557
1958-59	4	21	93	289	685	1319	1523	1096	861	462	114	8	6475
#1959-60	4	1	100	462	1002	932	1212	1229	1392	376	203	13	6926
1960-61	2	1	55	348	700	1277	1355	954	789	614	242	12	6349
1961-62	1	0	121	309	722	1297	1510	1150	999	481	78	22	6690
1962-63	8	1	149	342	774	1292	1717	1315	734	370	186	15	6903
1963-64	0	16	83	108	653	1585	1129	1097	942	405	71	20	6109
1964-65	3	24	100	437	624	1241	1344	1096	1174	471	86	3	6603
1965-66	0	21	115	363	722	939	1568	1119	794	533	287	31	6492
1966-67	0	6	116	386	695	1137	1202	1289	802	404	305	10	6352
1967-68	21	33	136	424	860	1127	1354	1221	711	409	248	18	6562
1968-69	8	15	96	404	826	1247	1458	1032	1010	398	172	57	6723
1969-70	0	0	80	445	805	1253	1607	1120	967	419	118	21	6835
1970-71	0	2	92	350	764	1111	1556	1088	931	425	242	0	6561
1971-72	17	3	94	195	740	1026	1434	1280	893	504	155	25	6366
1972-73	8	7	80	459	824	1319	1170	1013	598	452	223	1	6154
1973-74	0	0	78	258	733	1274	1338	1061	812	360	235	32	6181
1974-75	0	8	180	349	739	1122	1235	1114	1058	593	117	14	6529
1975-76	9	0	162	297	594	1072	1413	855	731	385	235	2	5755
1976-77	0	5	123	569	1038	1403	1755	1059	656	286	54	15	6963
1977-78	0	5	50	420	780	1337	1625	1417	986	423	229	13	7285
1978-79	1	4	59	415	767	1305	1820	1445	884	521	172	12	7405
1979-80	5	22	95	415	831	1027	1280	1324	966	481	129	27	6602
1980-81	0	1	77	503	755	1180	1281	1055	783	322	253	3	6213
1981-82	12	9	91	459	710	1226	1682	1214	936	604	62	35	7040
1982-83	0	14	110	333	765	916	1175	917	802	578	228	17	5855
1983-84	1	0	110	377	654	1578	1406	880	1039	482	225	2	6754
1984-85	3	4	171	303	761	1042	1568	1203	692	293	66	25	6131
1985-86	0	4	133	347	888	1546	1231	1174	705	338	104	9	6479
1986-87	0	30	55	358	898	1078							

See Reference Notes on Page 6B.

COOLING DEGREE DAYS Base 65 deg. F MOLINE, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL
1969	0	0	0	1	77	130	320	276	86	41	0	0	931
1970	0	0	0	32	119	198	341	256	105	15	0	0	1066
1971	0	0	0	9	32	355	203	225	212	44	0	0	1080
1972	0	0	0	3	102	165	312	294	138	6	0	0	1020
1973	0	0	0	2	2	226	312	323	103	27	0	0	995
1974	0	0	0	17	50	113	389	180	45	3	0	0	797
1975	0	0	0	1	85	241	325	319	44	29	0	0	1044
1976	0	0	0	26	12	175	341	221	72	13	0	0	860
1977	0	0	0	44	182	173	397	199	73	0	0	0	1068
1978	0	0	1	0	87	202	288	267	195	5	0	0	1045
1979	0	0	0	0	83	206	272	245	79	22	0	0	907
1980	0	0	0	11	65	158	395	343	107	1	0	0	1080
1981	0	0	0	8	27	191	275	209	50	0	0	0	760
1982	0	0	0	0	102	78	327	215	95	20	0	0	837
1983	0	0	0	1	12	260	453	459	138	14	0	0	1337
1984	0	0	0	9	21	268	261	327	116	3	0	0	1005
1985	0	0	0	64	71	165	292	154	172	0	0	0	918
1986	0	0	12	31	48	216	396	143	133	4	0	0	983

See Reference Notes on Page 6B.

SNOWFALL (inches)

MOLINE, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1957-58	0.0	0.0	0.0	0.0	0.3	6.4	14.0	1.7	2.0	T	0.0	0.0	24.4
1958-59	0.0	0.0	0.0	0.0	0.9	8.1	15.1	3.6	13.9	1.7	0.0	0.0	43.3
1959-60	0.0	0.0	0.0	T	9.1	9.9	8.5	19.3	14.7	T	T	0.0	61.5
1960-61	0.0	0.0	0.0	0.0	T	5.5	3.4	2.5	2.4	2.5	0.0	0.0	16.3
1961-62	0.0	0.0	0.0	0.0	T	13.6	11.2	15.8	7.1	0.2	0.0	0.0	47.9
1962-63	0.0	0.0	0.0	0.2	T	3.1	14.7	5.8	7.3	0.0	0.0	0.0	31.1
1963-64	0.0	0.0	0.0	0.0	T	9.7	5.3	5.5	13.9	T	0.0	0.0	34.4
1964-65	0.0	0.0	0.0	0.0	2.1	11.7	10.2	7.4	16.2	0.0	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.3	5.7	6.0	0.8	0.7	0.1	T	0.0	13.6
1966-67	0.0	0.0	0.0	0.0	T	7.2	14.4	13.2	2.2	1.1	0.0	0.0	38.1
1967-68	0.0	0.0	0.0	6.6	0.3	3.2	8.6	2.8	1.1	T	0.0	0.0	22.6
1968-69	0.0	0.0	0.0	T	5.9	5.4	6.2	0.9	5.6	0.0	T	0.0	24.0
1969-70	0.0	0.0	0.0	0.0	1.5	15.4	7.2	6.1	12.7	8.3	0.0	0.0	51.2
1970-71	0.0	0.0	0.0	0.0	0.2	2.2	17.7	2.6	7.8	T	0.0	0.0	30.5
1971-72	0.0	0.0	0.0	0.0	5.9	0.3	11.8	13.7	19.8	2.6	0.0	0.0	54.1
1972-73	0.0	0.0	0.0	2.0	6.7	6.6	0.4	8.6	0.5	0.9	0.0	0.0	25.7
1973-74	0.0	0.0	0.0	0.0	T	11.4	12.7	7.4	3.0	0.6	0.0	0.0	35.1
1974-75	0.0	0.0	0.0	0.0	15.6	8.8	7.6	19.3	12.2	6.2	0.0	0.0	69.7
1975-76	0.0	0.0	0.0	0.0	9.9	2.5	8.6	0.1	0.6	0.0	T	0.0	21.7
1976-77	0.0	0.0	0.0	0.0	7.7	4.1	12.3	2.5	10.8	1.0	0.0	0.0	38.4
1977-78	0.0	0.0	0.0	0.0	4.8	20.8	6.1	6.8	6.5	T	0.0	0.0	45.0
1978-79	0.0	0.0	0.0	0.0	7.1	21.7	26.7	4.5	3.4	0.6	0.0	0.0	64.0
1979-80	0.0	0.0	0.0	T	1.9	0.8	4.2	13.1	7.5	9.5	0.0	0.0	37.0
1980-81	0.0	0.0	0.0	2.4	1.1	4.5	5.3	5.6	T	0.0	0.0	0.0	18.9
1981-82	0.0	0.0	0.0	T	3.3	4.3	13.6	4.5	6.6	13.0	0.0	0.0	45.3
1982-83	0.0	0.0	0.0	0.0	T	0.5	4.7	6.2	12.7	0.7	0.0	0.0	24.8
1983-84	0.0	0.0	0.0	T	0.9	18.9	9.9	1.9	13.6	0.1	0.0	0.0	45.3
1984-85	0.0	0.0	0.0	0.0	T	9.3	13.4	7.5	0.2	T	0.0	0.0	30.4
1985-86	0.0	0.0	0.0	0.0	3.1	11.5	3.7	7.8	0.2	0.4	0.0	0.0	26.7
1986-87	0.0	0.0	0.0	0.0	2.2	0.2							
Record Mean	0.0	0.0	T	0.2	2.3	7.0	8.0	5.8	6.4	1.1	T	0.0	31.0

See Reference Notes on Page 6B.

REFERENCE NOTES

MOLINE, ILLINOIS

GENERAL
T - TRACE AMOUNT.
BLANK ENTRIES DENOTE MISSING/UNREPORTED DATA.
# INDICATES A STATION OR INSTRUMENT RELOCATION.
SEE STATION LOCATION TABLE ON PAGE 8.

SPECIFIC
PAGE 2
PM - INCLUDES LAST DAY OF PREVIOUS MONTH

PAGE 3
(a) - LENGTH OF RECORD IN YEARS, ALTHOUGH INDIVIDUAL MONTHS MAY BE MISSING.
* LESS THAN .05
NORMALS - BASED ON THE 1951-1980 RECORD PERIOD.
EXTREMES - DATES ARE THE MOST RECENT OCCURRENCE
WIND DIR.- NUMERALS SHOW TENS OF DEGRESS CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM.
RESULTANT DIRECTIONS ARE GIVEN TO WHOLE DEGREES.

EXCEPTIONS

PAGES 4A, 4B, 6A
RECORD MEANS ARE THROUGH THE CURRENT YEAR, BEGINNING IN 1930 FOR TEMPERATURE
1927 FOR PRECIPITATION
1933 FOR SNOWFALL

MOLINE, ILLINOIS

The locality is in the heart of the Corn Belt. Agricultural crops include many important staple products in addition to corn. Cattle, hogs, horses, and poultry produced in Iowa and Illinois rank high in the nation. Close to the Mississippi River there is large scale truck gardening and considerable dairying. Field production of grains and livestock attains greater development farther away from the large streams, where the countryside is rolling prairie. Damaging droughts are not common. This, together with the variety of agricultural products, has led to designating the section as the Bread Basket of America.

The climate is favorable for many industries as evidenced by the large number and variety of manufacturing and other enterprises which have located and developed in the community. Among these are some of the largest producers of agricultural machinery in the world.

This area has a temperate continental climate, with a wide temperature range throughout the year. There are some intensely hot, unusually humid, periods in summer and severely cold periods in winter. Maxima of 90 degrees or more have occurred in summer as frequently as 55 days and zero or lower readings have occurred during every winter.

Freezing temperatures have occurred as late in spring as late May and as early in autumn as late September. Precipitation is usually well distributed throughout the year with the greatest amounts falling during the 177-day average crop growing season. Substantial weather changes frequently occur at three or four day intervals, as a direct result of proximity to some of the most important storm tracks.

STATION LOCATION

MOLINE, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Sunshine Switch	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Automatic Observing Equipment *	Remarks
NE Corner, Moline AP 4.5 miles S of Moline Post Office	10/1/26	12/27/39	NA	41° 27'	90° 31'	589	53	3	3				3			
Administration Building Quad City Airport	12/27/39	4/3/61	1200 feet W	41° 27'	90° 31'	589 h582	62 f25	5 b36 c5 d36	5 a36 c5 d36	Unk		4 e5	15	g4		a - Moved to roof site 12/1/54. b - Moved to roof site 5/31/55. c - Moved to field site 6/7/56. d - Moved to roof site 4/16/58. e - Effective 4/16/58. f - Moved to field site 11/13/58. g - Telepsychrometer (5') 6/7/56-3/1/60. Hygro. comm. 3/1/60. h - Effective 3/1/60.
Terminal Building Quad City Airport	4/4/61	Present	200 feet SE	41° 27'	90° 31'	582	i25	17	17	27	k16	i5 j16	15	i4	NA	i - Not moved 4/4/61. j - Effective 7/22/63. k - Added 6/1/64.

* Type
M = AMOS
T = AUTOB

SUBSCRIPTION:
Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801

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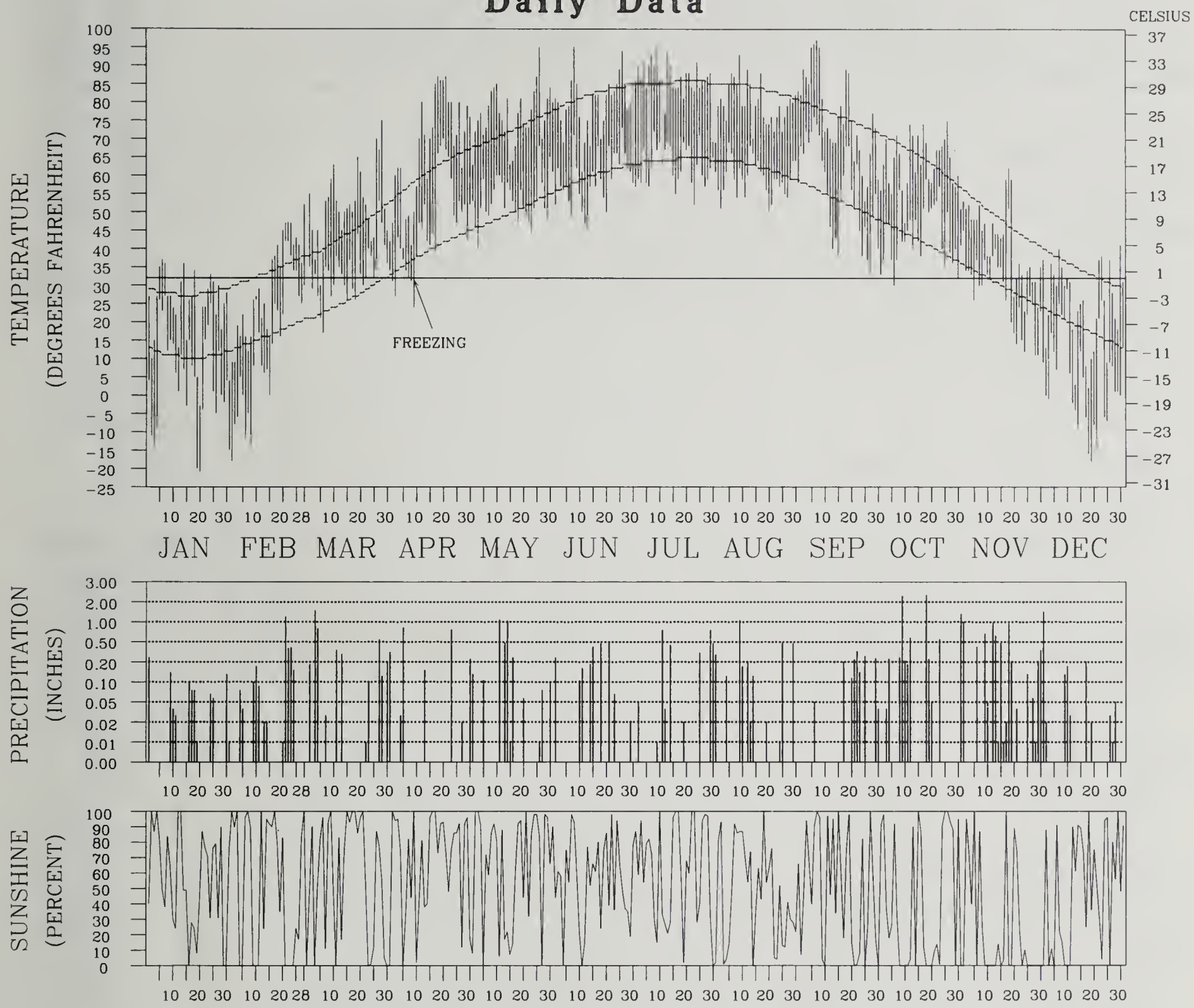
MOLINE,
ILLINOIS

Daily Data



TEMPERATURE DEPICTS NORMAL MAXIMUM, NORMAL MINIMUM AND ACTUAL DAILY HIGH AND LOW VALUES (FAHRENHEIT)
PRECIPITATION IS MEASURED IN INCHES, SCALE IS NON-LINEAR
SUNSHINE IS PERCENT OF THE POSSIBLE SUNSHINE

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER, ASHEVILLE, NORTH CAROLINA, 28801

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noaa
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE
NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

METEOROLOGICAL DATA FOR 1985

MOLINE, ILLINOIS

LATITUDE: 41°27' N LONGITUDE: 90°31' W ELEVATION: FT. GRND 582 BARO 00605 TIME ZONE: CENTRAL WBAN: 14923

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:													
Averages													
-Daily Maximum	23.8	29.7	51.6	67.9	76.5	79.9	85.8	80.1	76.3	63.4	42.1	24.9	58.5
-Daily Minimum	4.7	13.8	33.4	46.2	53.3	58.8	62.6	59.2	55.9	43.7	28.3	4.9	38.7
-Monthly	14.3	21.8	42.5	57.1	64.9	69.4	74.2	69.7	66.1	53.6	35.2	14.9	48.6
-Monthly Dewpt.	5.0	13.3	31.1	41.2	48.5	53.9	61.8	62.1	55.5	43.3	29.7	8.7	37.8
Extremes													
-Highest	37	52	75	87	95	95	95	93	97	75	62	41	97
-Date	6	28	28	21	26	8	9	9	7	26	18	30	SEP 7
-Lowest	-21	-18	17	24	40	45	52	50	33	30	11	-18	-21
-Date	20	1	6	9	3	13	23	20	27	6	29	19	JAN 20
DEGREE DAYS BASE 65 °F:													
Heating	1568	1203	692	293	66	25	0	4	133	347	888	1546	6765
Cooling	0	0	0	64	71	165	292	154	172	0	0	0	918
% OF POSSIBLE SUNSHINE	55	53	56	69	64	55	60	49	49	41	25	49	53
AVG. SKY COVER (tenths)													
Sunrise - Sunset	6.5	5.5	6.3	5.3	6.0	6.8	5.1	6.1	6.5	6.8	7.9	5.3	6.2
Midnight - Midnight	5.9	5.6	5.7	4.8	5.6	6.2	5.0	6.1	6.0	6.5	7.9	5.3	5.9
NUMBER OF DAYS:													
Sunrise to Sunset													
-Clear	5	12	6	11	10	3	12	8	8	9	5	13	102
-Partly Cloudy	9	3	13	11	6	14	11	12	6	2	3	7	97
-Cloudy	17	13	12	8	15	13	8	11	16	20	22	11	166
Precipitation .01 inches or more	12	12	12	6	11	9	10	10	9	12	18	10	131
Snow, Ice pellets 1.0 inches or more	7	3	0	0	0	0	0	0	0	0	2	4	16
Thunderstorms	0	0	2	2	5	6	8	8	2	2	3	0	38
Heavy Fog, visibility 1/4 mile or less	3	3	0	0	0	0	0	2	0	1	2	0	11
Temperature °F													
-Maximum													
90° and above	0	0	0	0	1	2	9	1	4	0	0	0	17
32° and below	25	15	1	0	0	0	0	0	0	0	6	22	69
-Minimum													
32° and below	31	23	13	5	0	0	0	0	0	2	18	31	123
0° and below	11	8	0	0	0	0	0	0	0	0	0	13	32
AVG. STATION PRESS. (mb)	997.5	999.3	994.6	992.2	990.5	992.4	993.6	995.6	996.3	996.3	996.6	997.6	995.3
RELATIVE HUMIDITY (%)													
Hour 00	67	72	70	63	67	72	80	93	80	80	83	78	75
Hour 06 (Local Time)	68	71	78	69	70	73	86	96	88	84	85	81	79
Hour 12	62	64	58	50	46	47	52	63	61	60	75	68	59
Hour 18	64	67	57	49	44	51	54	68	65	67	79	75	62
PRECIPITATION (inches):													
Water Equivalent													
-Total	1.04	2.80	4.71	2.14	3.46	2.26	3.33	2.76	1.71	8.54	6.35	2.21	41.31
-Greatest (24 hrs)	0.97	1.28	2.42	0.86	1.49	0.62	1.23	1.27	0.47	2.35	2.07	1.85	2.42
-Date	PM- 1	20-21	3- 4	5	13-14	14-15	29-30	9-10	21-22	18-19	PM- 1	PM- 1	MAR 3- 4
Snow, Ice pellets													
-Total	13.4	7.5	0.2	T	0.0	0.0	0.0	0.0	0.0	0.0	3.1	11.5	35.7
-Greatest (24 hrs)	8.8	3.9	0.2	T	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.1	8.8
-Date	PM- 1	10-11	30	8							29	17	JAN PM- 1
WIND:													
Resultant													
-Direction (!!)	278	263	245	228	212	245	226	160	182	168	007	268	246
-Speed (mph)	8.5	4.3	2.1	3.9	2.8	1.9	1.9	1.8	4.5	1.7	3.1	7.2	2.6
Average Speed (mph)	13.1	10.8	13.3	12.1	10.8	10.1	8.1	7.1	9.8	9.3	10.4	11.2	10.5
Fastest Mile													
-Direction (!!)	NW	NW	W	NW	SW	W	NW	NW	W	NW	W	W	W
-Speed (mph)	40	30	40	31	43	28	26	34	31	34	37	47	47
-Date	25	16	31	7	14	23	14	9	23	4	19	26	DEC 26
Peak Gust													
-Direction (!!)	NW	NW	SW	SW	SW	W	NW	NW	W	W	NW	NW	SW
-Speed (mph)	54	40	58	58	56	41	37	48	48	51	48	56	58
-Date	25	16	4	23	14	23	14	9	23	4	19	26	APR 23

(!!) See Reference Notes on Page 6B

NORMALS, MEANS, AND EXTREMES

MOLINE, ILLINOIS

LATITUDE: 41°27'N LONGITUDE: 90°31' W ELEVATION: FT. GRND 582 BARO 00605 TIME ZONE: CENTRAL WBAN: 14923

	(a)	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:														
Normals														
-Daily Maximum		28.0	33.7	44.8	61.1	72.5	82.1	85.4	83.6	76.2	64.8	48.0	34.3	59.5
-Daily Minimum		11.0	16.4	26.5	39.6	50.1	59.9	64.3	62.1	53.2	42.1	30.0	18.4	39.5
-Monthly		19.5	25.1	35.7	50.4	61.3	71.0	74.8	72.8	64.7	53.5	39.0	26.4	49.5
Extremes														
-Record Highest	53	65	71	83	92	104	104	105	106	100	92	80	69	106
-Year		1950	1976	1945	1980	1934	1934	1940	1936	1939	1963	1933	1970	AUG 1936
-Record Lowest	53	-27	-25	-19	7	26	39	46	40	24	16	-9	-22	-27
-Year		1979	1979	1960	1982	1966	1972	1971	1934	1942	1952	1976	1963	JAN 1979
NORMAL DEGREE DAYS:														
Heating (base 65°F)		1411	1117	908	438	177	20	0	5	75	370	780	1197	6498
Cooling (base 65°F)		0	0	0	0	62	200	307	250	66	14	0	0	899
% OF POSSIBLE SUNSHINE	42	48	50	50	53	56	62	68	67	63	58	42	41	55
MEAN SKY COVER (tenths)														
Sunrise - Sunset	43	6.6	6.4	6.8	6.6	6.3	6.0	5.3	5.3	5.2	5.3	6.7	6.8	6.1
MEAN NUMBER OF DAYS:														
Sunrise to Sunset														
-Clear	52	7.9	7.3	6.4	6.5	7.5	7.2	10.2	10.2	11.9	11.6	7.4	6.9	101.0
-Partly Cloudy	52	6.9	6.5	8.0	8.8	9.1	10.7	11.8	11.0	7.8	7.7	6.9	6.2	101.2
-Cloudy	52	16.2	14.5	16.5	14.8	14.5	12.2	9.0	9.8	10.3	11.7	15.8	17.8	163.0
Precipitation .01 inches or more	53	9.3	7.9	11.2	10.9	12.1	10.3	9.5	8.7	8.7	7.6	8.2	9.3	113.8
Snow, Ice pellets 1.0 inches or more	53	2.7	2.1	1.9	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.8	2.3	10.1
Thunderstorms	52	0.3	0.5	2.2	4.5	6.7	8.4	8.4	7.0	4.5	2.5	1.3	0.8	47.1
Heavy Fog Visibility 1/4 mile or less	51	2.3	2.0	2.0	0.7	0.8	0.6	0.8	2.1	1.7	2.0	1.3	1.8	18.0
Temperature °F														
-Maximum														
90° and above	25	0.0	0.0	0.0	0.1	1.2	5.0	7.9	5.9	1.9	0.1	0.0	0.0	22.1
32° and below	25	19.7	12.8	3.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	2.1	13.6	52.3
-Minimum														
32° and below	25	29.7	25.3	21.1	7.2	0.7	0.0	0.0	0.0	0.2	5.4	18.4	27.2	135.2
0° and below	25	9.2	4.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	4.0	18.2
AVG. STATION PRESS.(mb)	13	997.8	997.0	993.4	992.9	992.0	992.5	994.2	995.1	996.0	996.2	995.9	996.7	995.0
RELATIVE HUMIDITY (%)														
Hour 00	25	71	73	74	72	75	77	82	84	82	76	75	76	76
Hour 06 (Local Time)	25	72	74	77	78	80	80	84	89	87	81	79	77	80
Hour 12 (Local Time)	25	64	63	60	55	53	53	57	58	57	55	63	69	59
Hour 18	25	68	66	62	55	52	53	59	62	65	63	69	73	62
PRECIPITATION (inches):														
Water Equivalent														
-Normal		1.64	1.30	2.77	3.97	4.21	4.32	4.88	3.76	3.74	2.70	1.96	1.92	37.17
-Maximum Monthly	56	4.39	2.80	7.43	11.30	11.43	8.83	11.39	9.31	14.18	9.41	6.47	4.99	14.18
-Year		1974	1985	1973	1973	1974	1974	1969	1965	1970	1941	1934	1982	SEP 1970
-Minimum Monthly	56	0.31	0.17	0.31	0.68	0.55	1.02	1.02	0.35	0.02	0.01	0.29	0.23	0.01
-Year		1961	1933	1958	1946	1928	1963	1955	1971	1979	1964	1933	1929	OCT 1964
-Maximum in 24 hrs	56	2.07	1.90	2.42	5.81	3.68	5.02	5.41	4.60	6.29	4.89	2.73	3.38	6.29
-Year		1960	1948	1985	1973	1970	1967	1963	1951	1961	1954	1961	1942	SEP 1961
Snow, Ice pellets														
-Maximum Monthly	54	26.7	19.3	19.8	13.0	0.3				0.1	6.6	15.6	21.7	26.7
-Year		1979	1975	1972	1982	1935				1942	1967	1974	1978	JAN 1979
-Maximum in 24 hrs	52	16.4	10.1	11.0	8.2	0.3				0.1	6.5	8.5	9.0	16.4
-Year		1971	1975	1972	1970	1935				1942	1967	1975	1978	JAN 1971
WIND:														
Mean Speed (mph)	42	10.9	11.0	12.1	12.3	10.4	9.3	7.7	7.3	8.3	9.3	10.8	10.7	10.0
Prevailing Direction through 1963		WNW	WNW	WNW	NW	E	S	E	E	S	S	WNW	WNW	WNW
Fastest Mile														
-Direction (!!!)	56	SW	NW	SW	SW	SW	SW	W	SW	NW	SW	W	SW	SW
-Speed (MPH)	56	56	58	66	73	68	77	65	63	66	56	60	61	77
-Year		1946	1948	1954	1947	1955	1947	1953	1978	1945	1949	1952	1947	JUN 1947
Peak Gust														
-Direction (!!!)	2	NW	N	SW	SW	SW	NW	NW	NW	NW	SW	W	NW	SW
-Speed (mph)	2	54	41	58	69	56	48	52	48	49	61	51	56	69
-Date		1985	1984	1985	1984	1985	1984	1984	1985	1984	1984	1984	1985	APR 1984

(!!!) See Reference Notes on Page 6B.

PRECIPITATION (inches)

MOLINE, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1956	0.31	1.39	0.54	2.15	2.27	1.55	4.09	3.34	0.49	0.40	2.43	1.24	20.20
1957	1.33	1.57	2.90	3.49	4.11	2.52	4.47	3.17	1.16	2.00	2.38	3.82	32.92
1958	1.26	0.49	0.31	2.53	3.96	3.77	4.62	1.09	3.00	1.75	1.17	0.50	24.45
1959	1.41	1.77	3.06	4.75	5.31	3.62	4.48	3.90	4.29	5.59	1.50	2.42	42.10
1960	3.43	2.78	1.28	4.89	3.98	5.40	3.40	3.97	3.42	4.91	1.11	0.88	39.45
1961	0.31	1.20	4.48	2.19	1.98	3.69	7.63	2.37	11.00	4.53	4.94	1.58	45.90
1962	2.08	1.84	2.42	2.44	6.10	1.48	6.73	1.95	2.90	4.15	1.21	0.55	33.85
1963	0.91	0.37	3.29	4.24	2.36	1.02	8.78	4.02	2.38	0.63	1.84	0.94	30.78
1964	1.59	0.73	4.02	6.37	2.68	3.89	5.31	2.41	3.99	0.01	3.40	1.27	35.67
1965	4.08	0.97	2.52	7.92	4.04	2.07	4.78	9.31	8.27	0.88	1.93	2.82	49.59
1966	2.01	0.89	0.85	3.96	6.39	4.25	7.74	0.77	2.80	4.38	1.12	2.52	37.68
1967	2.00	1.11	1.68	4.91	1.70	8.15	4.15	3.62	4.99	6.23	2.26	1.56	42.36
1968	0.80	0.32	1.96	3.57	2.59	3.70	3.91	2.16	5.70	1.09	3.29	2.76	31.85
1969	3.28	0.21	2.25	3.11	3.40	6.97	11.39	2.00	2.50	4.63	0.53	1.52	41.79
1970	0.54	0.57	2.62	4.66	11.07	3.25	6.27	3.61	14.18	1.75	1.25	1.95	51.72
1971	1.79	1.57	1.99	1.86	3.14	2.36	11.22	0.35	4.54	2.64	2.21	4.77	38.44
1972	1.19	1.24	3.73	5.19	4.24	8.66	3.79	8.20	3.29	2.39	2.75	1.98	46.65
1973	2.53	1.94	7.43	11.30	6.96	6.58	2.63	2.30	6.74	3.06	1.15	3.74	56.36
1974	4.39	1.57	2.94	5.08	11.43	8.83	1.73	3.37	1.08	1.99	2.59	1.83	46.83
1975	1.50	1.75	3.30	2.88	3.23	3.50	2.71	3.23	1.99	0.90	2.98	0.98	28.95
1976	0.88	1.11	3.67	4.21	4.13	2.02	3.34	0.60	1.89	2.13	0.65	0.34	24.97
1977	0.87	0.62	4.61	1.57	2.66	5.18	6.04	6.98	4.80	4.09	2.78	1.76	41.96
1978	0.59	0.67	0.78	3.02	4.65	3.50	3.24	2.47	3.91	1.95	3.32	3.17	31.27
1979	2.72	1.02	2.77	4.01	2.86	2.85	4.40	6.94	0.02	2.51	2.13	2.27	34.50
1980	1.31	1.55	1.74	2.34	4.01	4.97	3.46	9.09	2.94	1.63	0.70	2.75	36.49
1981	0.32	2.45	0.69	4.48	1.48	5.51	3.07	6.90	4.20	4.42	2.42	0.72	36.66
1982	2.08	0.45	3.85	3.33	5.03	3.61	8.83	2.89	1.94	3.38	3.64	4.99	44.02
1983	0.55	1.50	2.88	4.88	2.06	5.21	2.79	0.96	5.30	2.36	5.78	2.55	36.82
1984	0.84	0.79	3.45	4.31	4.97	3.75	4.63	1.31	2.32	6.60	2.91	3.51	39.39
1985	1.04	2.80	4.71	2.14	3.46	2.26	3.33	2.76	1.71	8.54	6.35	2.21	41.31
Record Mean	1.57	1.29	2.64	3.70	3.96	4.38	4.24	3.56	3.67	2.82	2.24	1.82	35.90

See Reference Notes on Page 6B.

AVERAGE TEMPERATURE (deg. F)

MOLINE, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1956	22.7	26.9	36.1	47.1	62.6	74.0	73.2	73.3	63.4	59.0	38.4	28.9	50.5
1957	16.6	32.5	37.0	50.4	59.6	70.4	76.7	73.2	61.9	49.8	38.1	32.8	49.9
1958	22.2	16.7	35.7	50.5	62.2	66.3	71.3	73.5	64.4	56.0	42.0	22.2	48.6
1959	15.7	25.7	36.9	49.4	65.3	72.0	73.2	77.2	66.3	49.9	31.4	34.7	49.8
#1960	25.7	22.3	19.9	53.4	58.9	68.5	72.8	73.8	68.6	53.8	41.5	23.7	48.6
1961	21.1	30.7	39.3	44.3	58.1	71.9	74.2	73.9	66.1	55.4	40.8	23.0	49.9
1962	16.2	23.7	32.6	49.3	67.9	70.6	71.6	72.9	61.7	55.2	39.0	23.2	48.7
1963	9.7	17.9	41.1	52.9	60.0	73.5	74.8	70.8	64.9	64.4	43.1	13.8	48.9
1964	28.4	27.0	34.4	51.5	66.3	72.3	76.6	70.8	65.6	50.7	44.2	24.8	51.1
1965	21.4	25.7	26.9	49.2	65.9	69.6	74.9	71.1	63.5	53.6	40.7	34.5	49.8
1966	14.3	24.8	39.2	47.0	56.3	70.5	77.9	70.6	62.9	52.5	41.7	28.1	48.8
1967	26.0	18.7	39.0	51.6	56.4	70.9	71.4	67.7	62.1	52.1	36.1	28.5	48.4
1968	21.0	22.7	41.9	51.3	57.2	72.1	73.1	73.5	63.1	53.2	37.3	24.5	49.3
1969	17.9	27.9	32.2	51.6	61.7	67.1	75.0	73.7	64.9	51.7	37.9	24.3	48.8
1970	13.1	24.7	33.6	51.8	64.9	70.7	75.7	72.9	65.2	53.9	39.2	28.9	49.5
1971	14.8	25.9	34.7	50.9	58.0	76.6	70.7	71.9	68.7	59.9	40.0	31.6	50.3
1972	18.6	20.7	36.0	48.0	63.0	69.4	74.6	74.0	66.7	50.2	37.3	22.3	48.4
1973	27.1	28.7	45.4	49.7	57.6	72.3	74.9	75.1	65.7	57.3	40.4	23.7	51.5
1974	21.6	26.8	38.5	53.3	58.8	67.5	77.3	70.3	60.4	53.7	40.1	28.6	49.8
1975	24.9	25.0	30.6	45.1	63.8	72.3	75.0	75.1	60.9	56.2	45.0	30.3	50.4
1976	19.1	35.2	41.2	52.9	57.5	70.5	75.8	71.8	63.0	46.8	30.1	19.6	48.6
1977	8.2	27.1	43.6	56.6	68.9	70.0	77.5	71.0	65.5	51.2	38.7	21.7	50.0
1978	12.4	14.1	33.0	50.8	60.2	71.0	74.0	73.2	69.2	51.5	39.2	22.7	47.6
1979	6.3	13.2	36.3	47.4	61.9	71.2	73.5	72.0	64.3	52.1	37.0	31.7	47.2
1980	23.4	19.2	33.5	49.1	62.7	69.2	77.6	75.8	65.7	48.6	39.7	26.6	49.3
1981	23.4	27.1	39.4	54.3	57.5	71.0	73.3	71.2	63.5	49.9	41.1	25.3	49.7
1982	10.6	21.4	34.6	44.7	66.1	66.2	75.4	71.3	64.2	54.7	39.2	35.3	48.7
1983	26.9	32.0	38.9	45.5	57.8	72.9	79.4	79.6	65.6	53.1	42.9	14.0	50.7
1984	19.6	34.5	31.2	49.1	58.2	73.6	73.1	75.2	62.9	55.1	39.3	31.1	50.2
1985	14.3	21.8	42.5	57.1	64.9	69.4	74.2	69.7	66.1	53.6	35.2	14.9	48.6
Record Mean	21.0	26.0	36.2	50.2	61.1	71.1	75.2	73.2	65.0	53.8	39.0	26.5	49.9
Max	29.6	34.7	45.4	61.0	72.2	82.1	86.2	84.2	76.5	65.2	48.1	34.4	60.0
Min	12.4	17.3	27.0	39.4	50.0	60.1	64.1	62.1	53.5	42.4	30.0	18.5	39.7

See Reference Notes on Page 6B.

HEATING DEGREE DAYS Base 65 deg. F MOLINE, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1956-57	0	13	109	189	790	1109	1492	902	861	448	191	23	6127
1957-58	0	2	136	467	800	989	1319	1345	898	435	125	41	6557
1958-59	4	21	93	289	685	1319	1523	1096	861	462	114	8	6475
#1959-60	4	1	100	462	1002	932	1212	1229	1392	376	203	13	6926
1960-61	2	1	55	348	700	1277	1355	954	789	614	242	12	6349
1961-62	1	0	121	309	722	1297	1510	1150	999	481	78	22	6690
1962-63	8	1	149	342	774	1292	1717	1315	734	370	186	15	6903
1963-64	0	16	83	108	653	1585	1129	1097	942	405	71	20	6109
1964-65	3	24	100	437	624	1241	1344	1096	1174	471	86	3	6603
1965-66	0	21	115	363	722	939	1568	1119	794	533	287	31	6492
1966-67	0	6	116	386	695	1137	1202	1289	802	404	305	10	6352
1967-68	21	33	136	424	860	1127	1354	1221	711	409	248	18	6562
1968-69	8	15	96	404	826	1247	1458	1032	1010	398	172	57	6723
1969-70	0	0	80	445	805	1253	1607	1120	967	419	118	21	6835
1970-71	0	2	92	350	764	1111	1556	1088	931	425	242	0	6561
1971-72	17	3	94	195	740	1026	1434	1280	893	504	155	25	6366
1972-73	8	7	80	459	824	1319	1170	1013	598	452	223	1	6154
1973-74	0	0	78	258	733	1274	1338	1061	812	360	235	32	6181
1974-75	0	8	180	349	739	1122	1235	1114	1058	593	117	14	6529
1975-76	9	0	162	297	594	1072	1413	855	731	385	235	2	5755
1976-77	0	5	123	569	1038	1403	1755	1059	656	286	54	15	6963
1977-78	0	5	50	420	780	1337	1625	1417	986	423	229	13	7285
1978-79	1	4	59	415	767	1305	1820	1445	884	521	172	12	7405
1979-80	5	22	95	415	831	1027	1280	1324	966	481	129	27	6602
1980-81	0	1	77	503	755	1180	1281	1055	783	322	253	3	6213
1981-82	12	9	91	459	710	1226	1682	1214	936	604	62	35	7040
1982-83	0	14	110	333	765	916	1175	917	802	578	228	17	5855
1983-84	1	0	110	377	654	1578	1406	880	1039	482	225	2	6754
1984-85	3	4	171	303	761	1042	1568	1203	692	293	66	25	6131
1985-86	0	4	133	347	888	1546							

See Reference Notes on Page 6B.

COOLING DEGREE DAYS Base 65 deg. F MOLINE, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL
1969	0	0	0	1	77	130	320	276	86	41	0	0	931
1970	0	0	0	32	119	198	341	256	105	15	0	0	1066
1971	0	0	0	9	32	355	203	225	212	44	0	0	1080
1972	0	0	0	3	102	165	312	294	138	6	0	0	1020
1973	0	0	0	2	2	226	312	323	103	27	0	0	995
1974	0	0	0	17	50	113	389	180	45	3	0	0	797
1975	0	0	0	1	85	241	325	319	44	29	0	0	1044
1976	0	0	0	26	12	175	341	221	72	13	0	0	860
1977	0	0	0	44	182	173	397	199	73	0	0	0	1068
1978	0	0	1	0	87	202	288	267	195	5	0	0	1045
1979	0	0	0	0	83	206	272	245	79	22	0	0	907
1980	0	0	0	11	65	158	395	343	107	1	0	0	1080
1981	0	0	0	8	27	191	275	209	50	0	0	0	760
1982	0	0	0	0	102	78	327	215	95	20	0	0	837
1983	0	0	0	1	12	260	453	459	138	14	0	0	1337
1984	0	0	0	9	21	268	261	327	116	3	0	0	1005
1985	0	0	0	64	71	165	292	154	172	0	0	0	918

See Reference Notes on Page 6B.

SNOWFALL (inches)

MOLINE, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1956-57	0.0	0.0	0.0	0.0	2.1	6.5	11.8	0.7	6.9	6.5	0.0	0.0	34.5
1957-58	0.0	0.0	0.0	0.0	0.3	6.4	14.0	1.7	2.0	T	0.0	0.0	24.4
1958-59	0.0	0.0	0.0	0.0	0.9	8.1	15.1	3.6	13.9	1.7	0.0	0.0	43.3
1959-60	0.0	0.0	0.0	T	9.1	9.9	8.5	19.3	14.7	T	T	0.0	61.5
1960-61	0.0	0.0	0.0	0.0	T	5.5	3.4	2.5	2.4	2.5	0.0	0.0	16.3
1961-62	0.0	0.0	0.0	0.0	T	13.6	11.2	15.8	7.1	0.2	0.0	0.0	47.9
1962-63	0.0	0.0	0.0	0.2	T	3.1	14.7	5.8	7.3	0.0	0.0	0.0	31.1
1963-64	0.0	0.0	0.0	0.0	T	9.7	5.3	5.5	13.9	T	0.0	0.0	34.4
1964-65	0.0	0.0	0.0	0.0	2.1	11.7	10.2	7.4	16.2	0.0	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.3	5.7	6.0	0.8	0.7	0.1	T	0.0	13.6
1966-67	0.0	0.0	0.0	0.0	T	7.2	14.4	13.2	2.2	1.1	0.0	0.0	38.1
1967-68	0.0	0.0	0.0	6.6	0.3	3.2	8.6	2.8	1.1	T	0.0	0.0	22.6
1968-69	0.0	0.0	0.0	T	5.9	5.4	6.2	0.9	5.6	0.0	T	0.0	24.0
1969-70	0.0	0.0	0.0	0.0	1.5	15.4	7.2	6.1	12.7	8.3	0.0	0.0	51.2
1970-71	0.0	0.0	0.0	0.0	0.2	2.2	17.7	2.6	7.8	T	0.0	0.0	30.5
1971-72	0.0	0.0	0.0	0.0	5.9	0.3	11.8	13.7	19.8	2.6	0.0	0.0	54.1
1972-73	0.0	0.0	0.0	2.0	6.7	6.6	0.4	8.6	0.5	0.9	0.0	0.0	25.7
1973-74	0.0	0.0	0.0	0.0	T	11.4	12.7	7.4	3.0	0.6	0.0	0.0	35.1
1974-75	0.0	0.0	0.0	0.0	15.6	8.8	7.6	19.3	12.2	6.2	0.0	0.0	69.7
1975-76	0.0	0.0	0.0	0.0	9.9	2.5	8.6	0.1	0.6	0.0	T	0.0	21.7
1976-77	0.0	0.0	0.0	0.0	7.7	4.1	12.3	2.5	10.8	1.0	0.0	0.0	38.4
1977-78	0.0	0.0	0.0	0.0	4.8	20.8	6.1	6.8	6.5	T	0.0	0.0	45.0
1978-79	0.0	0.0	0.0	0.0	7.1	21.7	26.7	4.5	3.4	0.6	0.0	0.0	64.0
1979-80	0.0	0.0	0.0	T	1.9	0.8	4.2	13.1	7.5	9.5	0.0	0.0	37.0
1980-81	0.0	0.0	0.0	2.4	1.1	4.5	5.3	5.6	T	0.0	0.0	0.0	18.9
1981-82	0.0	0.0	0.0	T	3.3	4.3	13.6	4.5	6.6	13.0	0.0	0.0	45.3
1982-83	0.0	0.0	0.0	0.0	T	0.5	4.7	6.2	12.7	0.7	0.0	0.0	24.8
1983-84	0.0	0.0	0.0	T	0.9	18.9	9.9	1.9	13.6	0.1	0.0	0.0	45.3
1984-85	0.0	0.0	0.0	0.0	T	9.3	13.4	7.5	0.2	T	0.0	0.0	30.4
1985-86	0.0	0.0	0.0	0.0	3.1	11.5							
Record Mean	0.0	0.0	T	0.2	2.3	7.2	8.1	5.8	6.6	1.2	T	0.0	31.3

See Reference Notes on Page 6B.

REFERENCE NOTES

MOLINE, ILLINOIS

GENERAL
T - TRACE AMOUNT.
BLANK ENTRIES DENOTE MISSING/UNREPORTED DATA.
# INDICATES A STATION OR INSTRUMENT RELOCATION.
SEE STATION LOCATION TABLE ON PAGE 8.

SPECIFIC
PAGE 2
PM - INCLUDES LAST DAY OF PREVIOUS MONTH

PAGE 3
(a) - LENGTH OF RECORD IN YEARS, ALTHOUGH INDIVIDUAL MONTHS MAY BE MISSING.
* LESS THAN .05
NORMALS - BASED ON THE 1951-1980 RECORD PERIOD.
EXTREMES - DATES ARE THE MOST RECENT OCCURRENCE
WIND DIR.- NUMERALS SHOW TENS OF DEGRESS CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM.
RESULTANT DIRECTIONS ARE GIVEN TO WHOLE DEGREES.

EXCEPTIONS

PAGES 4A, 4B, 6A
RECORD MEANS ARE THROUGH THE CURRENT YEAR,
BEGINNING IN 1930 FOR TEMPERATURE
1927 FOR PRECIPITATION
1933 FOR SNOWFALL

MOLINE, ILLINOIS

The locality is in the heart of the Corn Belt. Agricultural crops include many important staple products in addition to corn. Cattle, hogs, horses, and poultry produced in Iowa and Illinois rank high in the nation. Close to the Mississippi River there is large scale truck gardening and considerable dairying. Field production of grains and livestock attains greater development farther away from the large streams, where the countryside is rolling prairie. Damaging droughts are not common. This, together with the variety of agricultural products, has led to designating the section as the Bread Basket of America.

The climate is favorable for many industries as evidenced by the large number and variety of manufacturing and other enterprises which have located and developed in the community. Among these are some of the largest producers of agricultural machinery in the world.

This area has a temperate continental climate, with a wide temperature range throughout the year. There are some intensely hot, unusually humid, periods in summer and severely cold periods in winter. Maxima of 90 degrees or more have occurred in summer as frequently as 55 days and zero or lower readings have occurred during every winter.

Freezing temperatures have occurred as late in spring as late May and as early in autumn as late September. Precipitation is usually well distributed throughout the year with the greatest amounts falling during the 177-day average crop growing season. Substantial weather changes frequently occur at three or four day intervals, as a direct result of proximity to some of the most important storm tracks.

STATION LOCATION

MOLINE, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Sunshine Switch	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Automatic Observing Equipment *	Remarks
NE Corner, Moline AP 4.5 miles S of Moline Post Office	10/1/26	12/27/39	NA	41° 27'	90° 31'	589	53	3	3				3			
Administration Building Quad City Airport	12/27/39	4/3/61	1200 feet W	41° 27'	90° 31'	589 h582	62 f25	5 b36 c5 d36	5 a36 c5 d36	Unk		4 e5	15	g4		a - Moved to roof site 12/1/54. b - Moved to roof site 5/31/55. c - Moved to field site 6/7/56. d - Moved to roof site 4/16/58. e - Effective 4/16/58. f - Moved to field site 11/13/58. g - Telepsychrometer (5') 6/7/56-3/1/60. Hygro. comm. 3/1/60. h - Effective 3/1/60.
Terminal Building Quad City Airport	4/4/61	Present	200 feet SE	41° 27'	90° 31'	582	i25	17	17	27	k16	i5 j16	15	i4	NA	i - Not moved 4/4/61. j - Effective 7/22/63. k - Added 6/1/64.

* Type
M = AMOS
T = AUTOB

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MOLINE,
ILLINOIS

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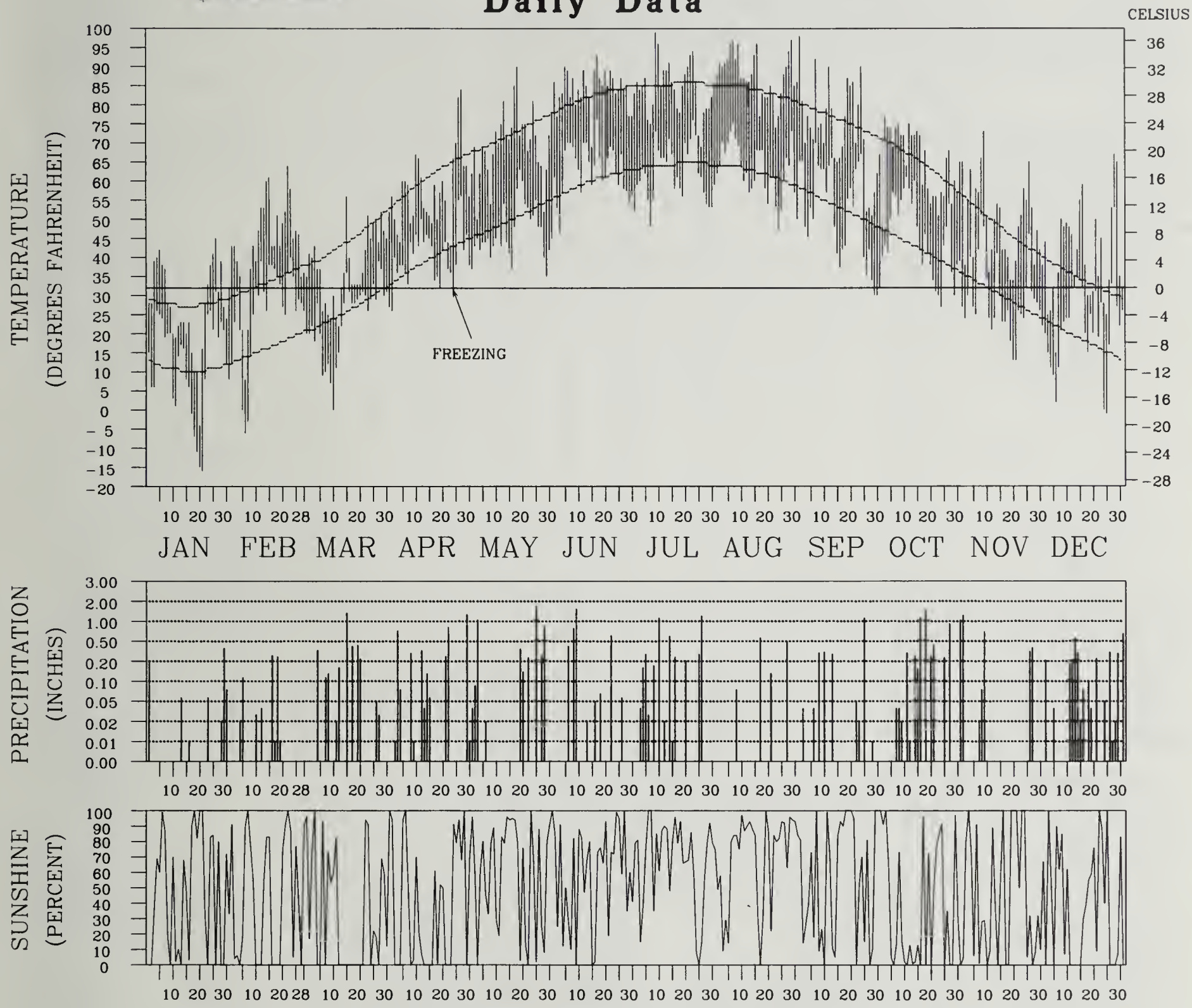

TEMPERATURE DEPICTS NORMAL MAXIMUM, NORMAL MINIMUM AND ACTUAL DAILY HIGH AND LOW VALUES (FAHRENHEIT)
PRECIPITATION IS MEASURED IN INCHES, SCALE IS NON-LINEAR
SUNSHINE IS PERCENT OF THE POSSIBLE SUNSHINE

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METEOROLOGICAL DATA FOR 1984

MOLINE, ILLINOIS

LATITUDE: 41°27' N LONGITUDE: 90°31' W ELEVATION: FT. (grd) 582 (msl) 594 TIME ZONE: CENTRAL WBAN: 14923

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:													
Averages													
-Daily Maximum	27.2	43.1	38.3	57.6	69.8	84.3	84.3	87.8	73.9	65.7	49.6	40.2	60.2
-Daily Minimum	11.9	25.8	24.1	40.5	46.6	62.9	61.9	62.6	51.9	44.5	29.0	22.0	40.3
-Monthly	19.6	34.5	31.2	49.1	58.2	73.6	73.1	75.2	62.9	55.1	39.3	31.1	50.2
-Monthly Dewpt.	12.5	24.6	20.5	37.5	45.2	59.5	61.1	62.7	50.9	46.5	27.4	23.4	39.3
Extremes													
-Highest	45	64	56	84	90	93	99	97	98	77	73	67	99
-Date	26	22	15	27	18	17	9	29	1	3	9	28	JUL 9
-Lowest	-16	-6	0	26	35	46	48	47	30	27	13	-1	-16
-Date	21	6	10	1	29	3	7	24	30	24	21	25	JAN 21
DEGREE DAYS BASE 65 °F:													
Heating	1406	880	1039	482	225	2	3	4	171	303	761	1042	6318
Cooling	0	0	0	9	21	268	261	327	116	3	0	0	1005
% OF POSSIBLE SUNSHINE	46	46	33	37	60	57	67	69	55	37	45	39	51
AVG. SKY COVER (tenths)													
Sunrise - Sunset	6.3	7.0	7.6	7.2	5.5	5.9	4.3	4.0	5.9	7.0	5.9	6.4	6.1
Midnight - Midnight	6.0	6.6	7.3	7.3	5.3	5.7	4.0	3.5	5.6	6.7	5.2	6.4	5.8
NUMBER OF DAYS:													
Sunrise to Sunset													
-Clear	9	5	6	6	10	6	14	15	10	8	10	7	106
-Partly Cloudy	8	9	6	7	10	15	11	11	6	4	5	8	100
-Cloudy	14	15	19	17	11	9	6	5	14	19	15	16	160
Precipitation .01 inches or more	7	8	11	13	10	8	13	4	9	14	6	17	120
Snow, Ice pellets 1.0 inches or more	3	1	6	0	0	0	0	0	0	0	0	3	13
Thunderstorms	0	1	1	1	1	9	7	2	4	8	2	0	36
Heavy Fog, visibility 1/4 mile or less	2	4	2	0	1	0	1	1	1	3	1	5	21
Temperature °F													
-Maximum													
90° and above	0	0	0	0	1	2	6	13	4	0	0	0	26
32° and below	21	3	8	0	0	0	0	0	0	0	0	10	42
-Minimum													
32° and below	31	20	27	3	0	0	0	0	2	5	23	27	138
0° and below	5	3	1	0	0	0	0	0	0	0	0	2	11
AVG. STATION PRESS. (mb)	1000.0	992.7	995.3	989.5	993.9	992.2	994.9	994.6	997.3	996.4	996.3	996.6	994.9
RELATIVE HUMIDITY (%)													
Hour 00	72	69	68	71	72	72	83	81	77	81	69	76	74
Hour 06 (Local Time)	74	74	71	77	80	76	81	86	82	86	74	78	78
Hour 12 (Local Time)	67	63	59	63	53	51	53	50	56	67	55	69	59
Hour 18 (Local Time)	69	65	60	61	51	51	53	54	59	72	61	74	61
PRECIPITATION (inches):													
Water Equivalent													
-Total	0.84	0.79	3.45	4.31	4.97	3.75	4.63	1.31	2.32	6.60	2.91	3.51	39.39
-Greatest (24 hrs)	0.48	0.30	1.43	1.36	1.75	1.64	1.28	0.59	1.18	1.58	2.33	0.91	2.33
-Date	29-30	16-17	15	29-30	25	9	25-26	17	25	18	PM- 1	13-14	NOV PM- 1
Snow, Ice pellets													
-Total	9.9	1.9	13.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	T	9.3	34.8
-Greatest (24 hrs)	5.4	1.7	4.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	T	5.7	5.7
-Date	29-30	5	17	3							30	31	DEC 31
WIND:													
Resultant													
-Direction (!!)	256	273	025	065	261	208	209	176	205	162	219	246	223
-Speed (mph)	4.1	2.1	3.2	2.6	2.4	3.1	2.0	1.8	2.6	3.1	3.7	3.2	1.5
Average Speed (mph)	10.4	11.3	11.9	14.4	11.3	10.5	8.0	7.2	9.6	9.3	10.6	12.0	10.5
Fastest Mile													
-Direction (!!)	NW	N	W	SW	NW	NW	W	NW	NW	SW	W	NW	SW
-Speed (mph)	30	29	32	49	34	34	35	21	34	40	35	33	49
-Date	28	28	5	30	8	22	14	8	13	16	15	21	APR 30
PEAK GUST													
-direction (!!)	NW	N	W	SW	NW	NW	NW	W	NW	SW	W	SW	SW
-Speed (mph)	41	41	39	69	52	48	52	31	49	61	51	52	69
-Date	28	28	5	30	8	22	10	8	13	16	15	16	APR 30

(!!) See Reference Notes on Page 6B

NORMALS, MEANS, AND EXTREMES

MOLINE, ILLINOIS

LATITUDE: 41°27'N LONGITUDE: 90°31' W ELEVATION: FT. (grd) 582 (msl) 594 TIME ZONE: CENTRAL WBAN: 14923

	(a)	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:														
Normals														
-Daily Maximum		28.0	33.7	44.8	61.1	72.5	82.1	85.4	83.6	76.2	64.8	48.0	34.3	59.5
-Daily Minimum		11.0	16.4	26.5	39.6	50.1	59.9	64.3	62.1	53.2	42.1	30.0	18.4	39.5
-Monthly		19.5	25.1	35.7	50.4	61.3	71.0	74.8	72.8	64.7	53.5	39.0	26.4	49.5
Extremes														
-Record Highest	52	65	71	83	92	104	104	105	106	100	92	80	69	106
-Year		1950	1976	1945	1980	1934	1934	1940	1936	1939	1963	1933	1970	AUG 1936
-Record Lowest	52	-27	-25	-19	7	26	39	46	40	24	16	-9	-22	-27
-Year		1979	1979	1960	1982	1966	1972	1971	1934	1942	1952	1976	1963	JAN 1979
NORMAL DEGREE DAYS:														
Heating (base 65°F)		1411	1117	908	438	177	20	0	5	75	370	780	1197	6498
Cooling (base 65°F)		0	0	0	0	62	200	307	250	66	14	0	0	899
% OF POSSIBLE SUNSHINE	41	48	49	49	52	56	62	69	67	64	59	42	40	55
MEAN SKY COVER (tenths)														
Sunrise - Sunset	42	6.6	6.4	6.8	6.6	6.3	6.0	5.3	5.3	5.1	5.3	6.7	6.8	6.1
MEAN NUMBER OF DAYS:														
Sunrise to Sunset														
-Clear	51	8.0	7.2	6.4	6.4	7.4	7.3	10.2	10.3	12.0	11.7	7.4	6.8	101.0
-Partly Cloudy	51	6.8	6.5	7.9	8.7	9.1	10.6	11.8	10.9	7.8	7.8	6.9	6.2	101.3
-Cloudy	51	16.2	14.6	16.6	14.9	14.5	12.1	9.0	9.8	10.2	11.5	15.6	18.0	163.0
Precipitation .01 inches or more	52	9.3	7.8	11.2	11.0	12.1	10.3	9.5	8.7	8.7	7.5	8.1	9.3	113.5
Snow, Ice pellets 1.0 inches or more	52	2.6	2.0	2.0	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.7	2.3	10.0
Thunderstorms	51	0.3	0.5	2.2	4.6	6.7	8.4	8.4	7.0	4.5	2.5	1.2	0.8	47.3
Heavy Fog Visibility 1/4 mile or less	50	2.3	2.0	2.0	0.8	0.8	0.6	0.8	2.1	1.7	2.0	1.2	1.8	18.2
Temperature °F														
-Maximum														
90° and above	24	0.0	0.0	0.0	0.1	1.3	5.1	7.9	6.1	1.8	0.1	0.0	0.0	22.3
32° and below	24	19.5	12.8	4.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.9	13.3	51.6
-Minimum														
32° and below	24	29.6	25.4	21.5	7.3	0.7	0.0	0.0	0.0	0.2	5.5	18.5	27.1	135.8
0° and below	24	9.2	4.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.6	17.7
AVG. STATION PRESS.(mb)	12	997.8	996.9	993.3	993.0	992.2	992.5	994.2	995.1	995.9	996.2	995.8	996.7	995.0
RELATIVE HUMIDITY (%)														
Hour 00	24	72	73	74	73	75	77	82	84	82	76	75	76	77
Hour 06 (Local Time)	24	72	74	77	78	80	81	84	88	87	81	78	77	80
Hour 12 (Local Time)	24	65	63	60	55	53	53	57	58	57	55	62	69	59
Hour 18 (Local Time)	24	68	66	62	55	53	54	59	62	65	63	69	73	62
PRECIPITATION (inches):														
Water Equivalent														
-Normal		1.64	1.30	2.77	3.97	4.21	4.32	4.88	3.76	3.74	2.70	1.96	1.92	37.17
-Maximum Monthly	55	4.39	2.78	7.43	11.30	11.43	8.83	11.39	9.31	14.18	9.41	6.47	4.99	14.18
-Year		1974	1960	1973	1973	1974	1974	1969	1965	1970	1941	1934	1982	SEP 1970
-Minimum Monthly	55	0.31	0.17	0.31	0.68	0.55	1.02	1.02	0.35	0.02	0.01	0.29	0.23	0.01
-Year		1961	1933	1958	1946	1928	1963	1955	1971	1979	1964	1933	1929	OCT 1964
-Maximum in 24 hrs	55	2.07	1.90	2.38	5.81	3.68	5.02	5.41	4.60	6.29	4.89	2.73	3.38	6.29
-Year		1960	1948	1944	1973	1970	1967	1963	1951	1961	1954	1961	1942	SEP 1961
Snow, Ice pellets														
-Maximum Monthly	53	26.7	19.3	19.8	13.0	0.3				0.1	6.6	15.6	21.7	26.7
-Year		1979	1975	1972	1982	1935				1942	1967	1974	1978	JAN 1979
-Maximum in 24 hrs	51	16.4	10.1	11.0	8.2	0.3				0.1	6.5	8.5	9.0	16.4
-Year		1971	1975	1972	1970	1935				1942	1967	1975	1978	JAN 1971
WIND:														
Mean Speed (mph)	41	10.9	11.0	12.1	12.3	10.4	9.3	7.7	7.3	8.2	9.3	10.8	10.7	10.0
Prevailing Direction through 1963		WNW	WNW	WNW	NW	E	S	E	E	S	S	WNW	WNW	WNW
Fastest Mile														
-Direction (!!)	55	SW	NW	SW	SW	SW	SW	W	SW	NW	SW	W	SW	SW
-speed (MPH)	55	56	58	66	73	68	77	65	63	66	56	60	61	77
-year		1946	1948	1954	1947	1955	1947	1953	1978	1945	1949	1952	1947	JUN 1947

(!!) See Reference Notes on Page 6B.

PRECIPITATION (inches)

MOLINE, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1955	2.03	1.88	1.20	5.33	2.30	3.65	1.02	2.44	2.40	2.70	0.60	0.54	26.09
1956	0.31	1.39	0.54	2.15	2.27	1.55	4.09	3.34	0.49	0.40	2.43	1.24	20.20
1957	1.33	1.57	2.90	3.49	4.11	2.52	4.47	3.17	1.16	2.00	2.38	3.82	32.92
1958	1.26	0.49	0.31	2.53	3.96	3.77	4.62	1.09	3.00	1.75	1.17	0.50	24.45
1959	1.41	1.77	3.06	4.75	5.31	3.62	4.48	3.90	4.29	5.59	1.50	2.42	42.10
1960	3.43	2.78	1.28	4.89	3.98	5.40	3.40	3.97	3.42	4.91	1.11	0.88	39.45
1961	0.31	1.20	4.48	2.19	1.98	3.69	7.63	2.37	11.00	4.53	4.94	1.58	45.90
1962	2.08	1.84	2.42	2.44	6.10	1.48	6.73	1.95	2.90	4.15	1.21	0.55	33.85
1963	0.91	0.37	3.29	4.24	2.36	1.02	8.78	4.02	2.38	0.63	1.84	0.94	30.78
1964	1.59	0.73	4.02	6.37	2.68	3.89	5.31	2.41	3.99	0.01	3.40	1.27	35.67
1965	4.08	0.97	2.52	7.92	4.04	2.07	4.78	9.31	8.27	0.88	1.93	2.82	49.59
1966	2.01	0.89	0.85	3.96	6.39	4.25	7.74	0.77	2.80	4.38	1.12	2.52	37.68
1967	2.00	1.11	1.68	4.91	1.70	8.15	4.15	3.62	4.99	6.23	2.26	1.56	42.36
1968	0.80	0.32	1.96	3.57	2.59	3.70	3.91	2.16	5.70	1.09	3.29	2.76	31.85
1969	3.28	0.21	2.25	3.11	3.40	6.97	11.39	2.00	2.50	4.63	0.53	1.52	41.79
1970	0.54	0.57	2.62	4.66	11.07	3.25	6.27	3.61	14.18	1.75	1.25	1.95	51.72
1971	1.79	1.57	1.99	1.86	3.14	2.36	11.22	0.35	4.54	2.64	2.21	4.77	38.44
1972	1.19	1.24	3.73	5.19	4.24	8.66	3.79	8.20	3.29	2.39	2.75	1.98	46.65
1973	2.53	1.94	7.43	11.30	6.96	6.58	2.63	2.30	6.74	3.06	1.15	3.74	56.36
1974	4.39	1.57	2.94	5.08	11.43	8.83	1.73	3.37	1.08	1.99	2.59	1.83	46.83
1975	1.50	1.75	3.30	2.88	3.23	3.50	2.71	3.23	1.99	0.90	2.98	0.98	28.95
1976	0.88	1.11	3.67	4.21	4.13	2.02	3.34	0.60	1.89	2.13	0.65	0.34	24.97
1977	0.87	0.62	4.61	1.57	2.66	5.18	6.04	6.98	4.80	4.09	2.78	1.76	41.96
1978	0.59	0.67	0.78	3.02	4.65	3.50	3.24	2.47	3.91	1.95	3.32	3.17	31.27
1979	2.72	1.02	2.77	4.01	2.86	2.85	4.40	6.94	0.02	2.51	2.13	2.27	34.50
1980	1.31	1.55	1.74	2.34	4.01	4.97	3.46	9.09	2.94	1.63	0.70	2.75	36.49
1981	0.32	2.45	0.69	4.48	1.48	5.51	3.07	6.90	4.20	4.42	2.42	0.72	36.66
1982	2.08	0.45	3.85	3.33	5.03	3.61	8.83	2.89	1.94	3.38	3.64	4.99	44.02
1983	0.55	1.50	2.88	4.88	2.06	5.21	2.79	0.96	5.30	2.36	5.78	2.55	36.82
1984	0.84	0.79	3.45	4.31	4.97	3.75	4.63	1.31	2.32	6.60	2.91	3.51	39.39
Record Mean	1.58	1.26	2.61	3.73	3.97	4.42	4.25	3.57	3.71	2.72	2.17	1.81	35.80

See Reference Notes on Page 6B.

AVERAGE TEMPERATURE (deg. F)

MOLINE, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1955	22.0	25.3	36.0	57.0	63.8	67.8	80.5	76.8	66.4	53.6	34.2	24.2	50.6
1956	22.7	26.9	36.1	47.1	62.6	74.0	73.2	73.3	63.4	59.0	38.4	28.9	50.5
1957	16.6	32.5	37.0	50.4	59.6	70.4	76.7	73.2	61.9	49.8	38.1	32.8	49.9
1958	22.2	16.7	35.7	50.5	62.2	66.3	71.3	73.5	64.4	56.0	42.0	22.2	48.6
1959	15.7	25.7	36.9	49.4	65.3	72.0	73.2	77.2	66.3	49.9	31.4	34.7	49.8
#1960	25.7	22.3	19.9	53.4	58.9	68.5	72.8	73.8	68.6	53.8	41.5	23.7	48.6
1961	21.1	30.7	39.3	44.3	58.1	71.9	74.2	73.9	66.1	55.4	40.8	23.0	49.9
1962	16.2	23.7	32.6	49.3	67.9	70.6	71.6	72.9	61.7	55.2	39.0	23.2	48.7
1963	9.7	17.9	41.1	52.9	60.0	73.5	74.8	70.8	64.9	64.4	43.1	13.8	48.9
1964	28.4	27.0	34.4	51.5	66.3	72.3	76.6	70.8	65.6	50.7	44.2	24.8	51.1
1965	21.4	25.7	26.9	49.2	65.9	69.6	74.9	71.1	63.5	53.6	40.7	34.5	49.8
1966	14.3	24.8	39.2	47.0	56.3	70.5	77.9	70.6	62.9	52.5	41.7	28.1	48.8
1967	26.0	18.7	39.0	51.6	56.4	70.9	71.4	67.7	62.1	52.1	36.1	28.5	48.4
1968	21.0	22.7	41.9	51.3	57.2	72.1	73.1	73.5	63.1	53.2	37.3	24.5	49.3
1969	17.9	27.9	32.2	51.6	61.7	67.1	75.0	73.7	64.9	51.7	37.9	24.3	48.8
1970	13.1	24.7	33.6	51.8	64.9	70.7	75.7	72.9	65.2	53.9	39.2	28.9	49.5
1971	14.8	25.9	34.7	50.9	58.0	76.6	70.7	71.9	68.7	59.9	40.0	31.6	50.3
1972	18.6	20.7	36.0	48.0	63.0	69.4	74.6	74.0	66.7	50.2	37.3	22.3	48.4
1973	27.1	28.7	45.4	49.7	57.6	72.3	74.9	75.1	65.7	57.3	40.4	23.7	51.5
1974	21.6	26.8	38.5	53.3	58.8	67.5	77.3	70.3	60.4	53.7	40.1	28.6	49.8
1975	24.9	25.0	30.6	45.1	63.8	72.3	75.0	75.1	60.9	56.2	45.0	30.3	50.4
1976	19.1	35.2	41.2	52.9	57.5	70.5	75.8	71.8	63.0	46.8	30.1	19.6	48.6
1977	8.2	27.1	43.6	56.6	68.9	70.0	77.5	71.0	65.5	51.2	38.7	21.7	50.0
1978	12.4	14.1	33.0	50.8	60.2	71.0	74.0	73.2	69.2	51.5	39.2	22.7	47.6
1979	6.3	13.2	36.3	47.4	61.9	71.2	73.5	72.0	64.3	52.1	37.0	31.7	47.2
1980	23.4	19.2	33.5	49.1	62.7	69.2	77.6	75.8	65.7	48.6	39.7	26.6	49.3
1981	23.4	27.1	39.4	54.3	57.5	71.0	73.3	71.2	63.5	49.9	41.1	25.3	49.7
1982	10.6	21.4	34.6	44.7	66.1	66.2	75.4	71.3	64.2	54.7	39.2	35.3	48.7
1983	26.9	32.0	38.9	45.5	57.8	72.9	79.4	79.6	65.6	53.1	42.9	14.0	50.7
1984	19.6	34.5	31.2	49.1	58.2	73.6	73.1	75.2	62.9	55.1	39.3	31.1	50.2
Record Mean	21.2	26.1	36.1	50.0	61.0	71.2	75.2	73.2	65.0	53.9	39.1	26.6	49.9
Max	29.7	34.8	45.3	60.8	72.2	82.2	86.2	84.2	76.5	65.3	48.2	34.6	60.0
Min	12.6	17.4	26.9	39.3	49.9	60.1	64.2	62.2	53.4	42.4	30.0	18.7	39.8

See Reference Notes on Page 6B.

HEATING DEGREE DAYS Base 65 deg. F MOLINE, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1955-56	0	0	71	356	914	1259	1305	1096	890	537	155	26	6609
1956-57	0	13	109	189	790	1109	1492	902	861	448	191	23	6127
1957-58	0	2	136	467	800	989	1319	1345	898	435	125	41	6557
1958-59	4	21	93	289	685	1319	1523	1096	861	462	114	8	6475
#1959-60	4	1	100	462	1002	932	1212	1229	1392	376	203	13	6926
1960-61	2	1	55	348	700	1277	1355	954	789	614	242	12	6349
1961-62	1	0	121	309	722	1297	1510	1150	999	481	78	22	6690
1962-63	8	1	149	342	774	1292	1717	1315	734	370	186	15	6903
1963-64	0	16	83	108	653	1585	1129	1097	942	405	71	20	6109
1964-65	3	24	100	437	624	1241	1344	1096	1174	471	86	3	6603
1965-66	0	21	115	363	722	939	1568	1119	794	533	287	31	6492
1966-67	0	6	116	386	695	1137	1202	1289	802	404	305	10	6352
1967-68	21	33	136	424	860	1127	1354	1221	711	409	248	18	6562
1968-69	8	15	96	404	826	1247	1458	1032	1010	398	172	57	6723
1969-70	0	0	80	445	805	1253	1607	1120	967	419	118	21	6835
1970-71	0	2	92	350	764	1111	1556	1088	931	425	242	0	6561
1971-72	17	3	94	195	740	1026	1434	1280	893	504	155	25	6366
1972-73	8	7	80	459	824	1319	1170	1013	598	452	223	1	6154
1973-74	0	0	78	258	733	1274	1338	1061	812	360	235	32	6181
1974-75	0	8	180	349	739	1122	1235	1114	1058	593	117	14	6529
1975-76	9	0	162	297	594	1072	1413	855	731	385	235	2	5755
1976-77	0	5	123	569	1038	1403	1755	1059	656	286	54	15	6963
1977-78	0	5	50	420	780	1337	1625	1417	986	423	229	13	7285
1978-79	1	4	59	415	767	1305	1820	1445	884	521	172	12	7405
1979-80	5	22	95	415	831	1027	1280	1324	966	481	129	27	6602
1980-81	0	1	77	503	755	1180	1281	1055	783	322	253	3	6213
1981-82	12	9	91	459	710	1226	1682	1214	936	604	62	35	7040
1982-83	0	14	110	333	765	916	1175	917	802	578	228	17	5855
1983-84	1	0	110	377	654	1578	1406	880	1039	482	225	2	6754
1984-85	3	4	171	303	761	1042							

See Reference Notes on Page 6B.

COOLING DEGREE DAYS Base 65 deg. F MOLINE, ILLINOIS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL
1969	0	0	0	1	77	130	320	276	86	41	0	0	931
1970	0	0	0	32	119	198	341	256	105	15	0	0	1066
1971	0	0	0	9	32	355	203	225	212	44	0	0	1080
1972	0	0	0	3	102	165	312	294	138	6	0	0	1020
1973	0	0	0	2	2	226	312	323	103	27	0	0	995
1974	0	0	0	17	50	113	389	180	45	3	0	0	797
1975	0	0	0	1	85	241	325	319	44	29	0	0	1044
1976	0	0	0	26	12	175	341	221	72	13	0	0	860
1977	0	0	0	44	182	173	397	199	73	0	0	0	1068
1978	0	0	1	0	87	202	288	267	195	5	0	0	1045
1979	0	0	0	0	83	206	272	245	79	22	0	0	907
1980	0	0	0	11	65	158	395	343	107	1	0	0	1080
1981	0	0	0	8	27	191	275	209	50	0	0	0	760
1982	0	0	0	0	102	78	327	215	95	20	0	0	837
1983	0	0	0	1	12	260	453	459	138	14	0	0	1337
1984	0	0	0	9	21	268	261	327	116	3	0	0	1005

See Reference Notes on Page 6B.

SNOWFALL (inches)

MOLINE, ILLINOIS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1955-56	0.0	0.0	0.0	T	2.0	2.9	2.2	7.5	0.7	0.3	0.0	0.0	15.6
1956-57	0.0	0.0	0.0	0.0	2.1	6.5	11.8	0.7	6.9	6.5	0.0	0.0	34.5
1957-58	0.0	0.0	0.0	0.0	0.3	6.4	14.0	1.7	2.0	T	0.0	0.0	24.4
1958-59	0.0	0.0	0.0	0.0	0.9	8.1	15.1	3.6	13.9	1.7	0.0	0.0	43.3
1959-60	0.0	0.0	0.0	T	9.1	9.9	8.5	19.3	14.7	T	T	0.0	61.5
1960-61	0.0	0.0	0.0	0.0	T	5.5	3.4	2.5	2.4	2.5	0.0	0.0	16.3
1961-62	0.0	0.0	0.0	0.0	T	13.6	11.2	15.8	7.1	0.2	0.0	0.0	47.9
1962-63	0.0	0.0	0.0	0.2	T	3.1	14.7	5.8	7.3	0.0	0.0	0.0	31.1
1963-64	0.0	0.0	0.0	0.0	T	9.7	5.3	5.5	13.9	T	0.0	0.0	34.4
1964-65	0.0	0.0	0.0	0.0	2.1	11.7	10.2	7.4	16.2	0.0	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.3	5.7	6.0	0.8	0.7	0.1	T	0.0	13.6
1966-67	0.0	0.0	0.0	0.0	T	7.2	14.4	13.2	2.2	1.1	0.0	0.0	38.1
1967-68	0.0	0.0	0.0	6.6	0.3	3.2	8.6	2.8	1.1	T	0.0	0.0	22.6
1968-69	0.0	0.0	0.0	T	5.9	5.4	6.2	0.9	5.6	0.0	T	0.0	24.0
1969-70	0.0	0.0	0.0	0.0	1.5	15.4	7.2	6.1	12.7	8.3	0.0	0.0	51.2
1970-71	0.0	0.0	0.0	0.0	0.2	2.2	17.7	2.6	7.8	T	0.0	0.0	30.5
1971-72	0.0	0.0	0.0	0.0	5.9	0.3	11.8	13.7	19.8	2.6	0.0	0.0	54.1
1972-73	0.0	0.0	0.0	2.0	6.7	6.6	0.4	8.6	0.5	0.9	0.0	0.0	25.7
1973-74	0.0	0.0	0.0	0.0	T	11.4	12.7	7.4	3.0	0.6	0.0	0.0	35.1
1974-75	0.0	0.0	0.0	0.0	15.6	8.8	7.6	19.3	12.2	6.2	0.0	0.0	69.7
1975-76	0.0	0.0	0.0	0.0	9.9	2.5	8.6	0.1	0.6	0.0	T	0.0	21.7
1976-77	0.0	0.0	0.0	0.0	7.7	4.1	12.3	2.5	10.8	1.0	0.0	0.0	38.4
1977-78	0.0	0.0	0.0	0.0	4.8	20.8	6.1	6.8	6.5	T	0.0	0.0	45.0
1978-79	0.0	0.0	0.0	0.0	7.1	21.7	26.7	4.5	3.4	0.6	0.0	0.0	64.0
1979-80	0.0	0.0	0.0	T	1.9	0.8	4.2	13.1	7.5	9.5	0.0	0.0	37.0
1980-81	0.0	0.0	0.0	2.4	1.1	4.5	5.3	5.6	T	0.0	0.0	0.0	18.9
1981-82	0.0	0.0	0.0	T	3.3	4.3	13.6	4.5	6.6	13.0	0.0	0.0	45.3
1982-83	0.0	0.0	0.0	0.0	T	0.5	4.7	6.2	12.7	0.7	0.0	0.0	24.8
1983-84	0.0	0.0	0.0	T	0.9	18.9	9.9	1.9	13.6	0.1	0.0	0.0	45.3
1984-85	0.0	0.0	0.0	0.0	T	9.3							
Record Mean	0.0	0.0	0.0	0.2	2.3	7.1	8.0	5.7	6.7	1.2	0.0	0.0	31.2

See Reference Notes on Page 6B.

REFERENCE NOTES

MOLINE, ILLINOIS

GENERAL
T - TRACE AMOUNT.
BLANK ENTRIES DENOTE MISSING/UNREPORTED DATA.
# INDICATES A STATION OR INSTRUMENT RELOCATION.
SEE STATION LOCATION TABLE ON PAGE 8.

SPECIFIC
PAGE 2
PM - INCLUDES LAST DAY OF PREVIOUS MONTH

PAGE 3
(a) - LENGTH OF RECORD IN YEARS, ALTHOUGH INDIVIDUAL MONTHS MAY BE MISSING.
* LESS THAN .05
NORMALS - BASED ON THE 1951-1980 RECORD PERIOD.
EXTREMES - DATES ARE THE MOST RECENT OCCURRENCE
WIND DIR.- NUMERALS SHOW TENS OF DEGRESS CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM.
RESULTANT DIRECTIONS ARE GIVEN TO WHOLE DEGREES.

PAGES 4A, 4B, 6A
RECORD MEANS ARE FOR ENTIRE PERIOD OF RECORD, REGARDLESS OF LOCATION

EXCEPTIONS

NONE

MOLINE, ILLINOIS

The locality is in the heart of the Corn Belt. Agricultural crops include many important staple products in addition to corn. Cattle, hogs, horses, and poultry produced in Iowa and Illinois rank high in the nation. Close to the Mississippi River there is large scale truck gardening and considerable dairying. Field production of grains and livestock attains greater development farther away from the large streams, where the countryside is rolling prairie. Damaging droughts are not common. This, together with the variety of agricultural products, has led to designating the section as the Bread Basket of America.

The climate is favorable for many industries as evidenced by the large number and variety of manufacturing and other enterprises which have located and developed in the community. Among these are some of the worlds largest producers of agricultural machinery.

This area has a temperate continental climate, with a wide temperature range throughout the year. There are some intensely hot, unusually humid, periods in summer and severely cold periods in winter. Maxima of 90 deg. or higher have occurred in summer as frequently as 55 days and zero or lower readings have occurred during every winter.

Freezing temperatures have occurred as late in spring as late May and as early in autumn as late September. Precipitation usually is well distributed throughout the year with the greatest amounts falling during the 177-day average crop growing season. Substantial weather changes frequently occur at three or four day intervals, as a direct result of proximity to some of the most important storm tracks.

STATION LOCATION

MOLINE, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Sunshine Switch	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Automatic Observing Equipment *	Remarks
NE Corner, Moline AP 4.5 miles S of Moline Post Office	10/1/26	12/27/39	NA	41° 27'	90° 31'	589	53	3	3				3			
Administration Building Quad City Airport	12/27/39	4/3/61	1200 feet W	41° 27'	90° 31'	589 h582	62 f25	5 b36 c5 d36	5 a36 c5 d36	Unk		4 e5	15	g4		a - Moved to roof site 12/1/54. b - Moved to roof site 5/31/55. c - Moved to field site 6/7/56. d - Moved to roof site 4/16/58. e - Effective 4/16/58. f - Moved to field site 11/13/58. g - Telepsychrometer (5') 6/7/56-3/1/60. Hygro. comm. 3/1/60. h - Effective 3/1/60.
Terminal Building Quad City Airport	4/4/61	Present	200 feet SE	41° 27'	90° 31'	582	i25	17	17	27	k16	i5 j16	15	i4	NA	i - Not moved 4/4/61. j - Effective 7/22/63. k - Added 6/1/64.

* Type
M = AMOS
T = AUTOB

SUBSCRIPTION:
Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801

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Map and Geography

Local Climatological Data

Annual Summary With Comparative Data

1983

MOLINE, ILLINOIS

Narrative Climatological Summary

This area has a temperate continental climate, with a wide temperature range throughout the year. There are some intensely hot, usually humid, periods in summer and severely cold periods in winter. Maxima of 90° or higher have occured as frequently as on 55 days (1936), but in 1882 there were none. Zero or lower readings have occurred during every winter of record ranging from 37 times in 1874-75 to 1 time during 4 winters.

Freezing temperatures have occurred as late in spring as May 20 and as early in autumn as September 20. Precipitation usually is well distributed throughout the year. Normally the greatest amounts fall during the 177-day average crop growing season (April 21-October 14, inclusive). Substantial weather changes frequently occur at 3- or 4-day intervals, as a direct result of proximity to some of the most important storm tracks.

The locality is in the heart of the Corn Belt. Agricultural crops include many important staple products in addition to corn. Cattle, hogs, horses, and poultry produced in Iowa and Illinois rank high in the nation. Close to the Mississippi River there is large scale truck gardening and considerable dairying. Field production of grains and livestock attains greater development farther away from the large streams, where the countryside is rolling prairie. Damaging drouths are not common. This, together with the variety of agricultural products, has led to designating the section as the "Bread Basket" of America.

The climate is favorable for many industries as evidenced by the large number and variety of manufacturing and other enterprises which have located and developed in the community. Among these are some of the world's largest producers of agricultural machinery.

Records began in Davenport, Iowa, in May 1871, and have been continuous to date. At the Quad-City Airport, Moline, Illinois, records began in October 1926, but are not complete in the years 1935, 1936, and 1937. For a summary of data from Lock & Dam No. 15, Davenport, Iowa, please refer to IOWA CLIMATOLOGICAL DATA.

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Meteorological Data For The Current Year

Station: MOLINE, ILLINOIS # 14923 QUAD CITY AIRPORT Standard time used: CENTRAL Latitude: 41° 27′ N Longitude: 90° 31′ W Elevation (ground): 582 feet Year: 1983

Month	Temperature °F: Averages: Daily maximum	Daily minimum	Monthly	Extremes: Highest	Date	Lowest	Date	Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Total	Greatest in 24 hrs.	Date	Snow, Ice pellets: Total	Greatest in 24 hrs.	Date	Relative humidity, pct. (Local time): Hour 00	Hour 06	Hour 12	Hour 18	Wind: Resultant: Direction	Speed m.p.h.	Average speed m.p.h.	Fastest mile: Speed m.p.h.	Direction	Date	Percent of possible sunshine	Average sky cover, tenths, sunrise to sunset	Number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperature °F: Maximum (b): 90° and above	32° and below	Minimum: 32° and below	0° and below	Average station pressure mb Elev. 594 feet m.s.l.
JAN	33.2	20.5	26.9	46	6	4	27	1175	0	0.55	0.18	21-22	4.7	1.7	29-30	77	78	68	69	27	2.5	11.4	38	NW	14	29	7.4	5	6	20	8	2	0	2	0	15	30	0	997.6
FEB	39.8	24.1	32.0	64	20	-8	7	917	0	1.50	0.66	1-2	6.2	2.6	5-6	77	79	66	71	13	0.8	8.9	29	NE	1	38	7.8	3	6	19	9	3	0	3	0	5	19	2	995.3
MAR	46.6	31.1	38.9	76	3	11	23	802	0	2.88	0.88	26-27	12.7	5.7	26	74	79	64	67	05	2.5	11.7	26	E	26	36	8.3	2	6	23	12	2	0	0	0	4	18	0	990.5
APR	54.8	36.2	45.5	82	26	23	19	578	1	4.88	2.96	1-2	0.7	0.7	3	71	79	55	53	36	1.9	11.5	37	W	14	44	7.0	4	10	16	13	0	1	1	0	0	10	0	989.8
MAY	68.7	46.9	57.8	83	6	30	9	228	12	2.06	0.68	13-14	0.0	0.0		81	81	55	54	25	1.0	11.6	34	SW	7	38	6.7	7	7	17	16	0	6	0	0	0	1	0	991.2
JUN	84.7	61.0	72.9	95	26	42	1	17	260	5.21	3.71	29	0.0	0.0		78	82	50	52	17	4.0	9.3	28	NW	15	50	5.5	11	8	11	8	0	6	0	9	0	0	0	992.6
JUL	91.0	67.8	79.4	103	22	52	6	1	453	2.79	1.42	1-2	0.0	0.0		80	83	52	54	21	3.5	8.7	36	NW	3	75	4.1	15	8	8	7	0	6	0	20	0	0	0	994.9
AUG	91.5	67.6	79.6	103	17	54	13	0	459	0.96	0.36	22	0.0	0.0		81	86	55	53	28	1.5	6.5	31	W	22	72	4.6	12	14	5	6	0	4	1	20	0	0	0	995.6
SEP	78.3	52.9	65.6	96	9	33	23	110	138	5.30	1.39	15	0.0	0.0		78	86	55	60	20	3.8	9.3	32	NW	5	67	4.6	14	7	9	10	0	7	0	6	0	0	0	995.9
OCT	63.7	42.4	53.1	85	2	30	14	377	14	2.36	1.12	11-12	T	T	13	80	85	56	66	16	0.3	10.3	27	SW	7	53	6.3	8	8	15	9	0	1	0	0	0	4	0	997.6
NOV	50.7	35.1	42.9	69	1	20	30	654	0	5.78	1.49	1	0.9	0.6	13	81	82	73	76	21	1.7	11.5	33	W	23	18	8.5	2	5	23	14	0	3	1	0	1	14	0	990.9
DEC	20.8	7.2	14.0	37	2	-19	24	1578	0	2.55	0.73	10-11	18.9	6.0	14	71	71	70	68	28	5.3	11.6	29	NW	24	38	7.0	6	6	19	19	6	0	1	0	21	29	10	1000.0
YEAR	60.3	41.1	50.7	103	AUG 17	-19	DEC 24	6437	1337	36.82	3.71	JUN 29	44.1	6.0	DEC 14	77	81	60	62	23	1.1	10.2	38	NW	JAN 14	48	6.5	89	91	185	131	13	34	9	55	46	125	12	994.3

Normals, Means, And Extremes

Month	Temperatures °F: Normal: Daily maximum	Daily minimum	Monthly	Extremes: Record highest	Year	Record lowest	Year	Normal Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Normal	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year	Snow, Ice pellets: Maximum monthly	Year	Maximum in 24 hrs.	Year	Relative humidity pct. (Local time): Hour 00	Hour 06	Hour 12	Hour 18	Wind: Mean speed m.p.h.	Prevailing direction	Fastest mile: Speed m.p.h.	Direction	Year	Pct. of possible sunshine	Mean sky cover, tenths, sunrise to sunset	Mean number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperatures °F: Max. (b): 90° and above	32° and below	Min.: 32° and below	0° and below	Average station pressure mb. Elev. 594 feet m.s.l.
(a)				51		51					54		54		54		52		50		23	23	23	23	40	12	54	54		40	41	50	50	50	51	51	50	49	23	23	23	23	11
J	28.0	11.0	19.5	65	1950	-27	1979	1411	0	1.64	4.39	1974	0.31	1961	2.07	1960	26.7	1979	16.4	1971	72	72	64	68	10.9	WNW	56	SW	1946	48	6.6	8	7	16	9	3	*	2	0	19	30	9	997.6
F	33.7	16.4	25.1	71	1976	-25	1979	1117	0	1.30	2.78	1960	0.17	1933	1.90	1948	19.3	1975	10.1	1975	73	74	63	66	11.0	WNW	58	NW	1948	50	6.4	7	6	15	8	2	1	2	0	13	26	4	997.2
M	44.8	26.5	35.7	83	1945	-19	1960	908	0	2.77	7.43	1973	0.31	1958	2.38	1944	19.8	1972	11.0	1972	74	78	60	63	12.1	WNW	66	SW	1954	50	6.8	6	8	17	11	2	2	2	0	4	21	*	993.2
A	61.1	39.6	50.4	92	1980	7	1982	438	0	3.97	11.30	1973	0.68	1946	5.81	1973	13.0	1982	8.2	1970	73	78	55	55	12.2	NW	73	SW	1947	52	6.6	6	9	15	11	*	5	1	*	*	7	0	993.3
M	72.5	50.1	61.3	104	1934	26	1966	177	62	4.21	11.43	1974	0.55	1928	3.68	1970	0.3	1935	0.3	1935	75	80	53	53	10.4	E	68	SW	1955	56	6.3	7	9	15	12	0	7	1	1	0	1	0	992.0
J	82.1	59.9	71.0	104	1934	39	1972	20	200	4.32	8.83	1974	1.02	1963	5.02	1967	0.0		0.0		77	81	53	54	9.3	S	77	SW	1947	63	6.0	7	11	12	10	0	8	1	5	0	0	0	992.6
J	85.4	64.3	74.9	105	1940	46	1971	0	307	4.88	11.39	1969	1.02	1955	5.41	1963	0.0		0.0		82	84	57	59	7.7	E	65	W	1953	69	5.3	10	12	9	9	0	8	1	8	0	0	0	994.2
A	83.6	62.1	72.9	106	1936	40	1934	5	250	3.76	9.31	1965	0.35	1971	4.60	1951	0.0		0.0		84	88	58	62	7.3	E	63	SW	1978	67	5.3	10	11	10	9	0	7	2	6	0	0	0	995.1
S	76.2	53.2	64.7	100	1939	24	1942	75	66	3.74	14.18	1970	0.02	1979	6.29	1961	0.1	1942	0.1	1942	82	87	57	66	8.2	S	66	NW	1945	64	5.1	12	8	10	9	0	5	2	2	0	*	0	995.8
O	64.8	42.1	53.5	92	1963	16	1952	370	14	2.70	9.41	1941	0.01	1964	4.89	1954	6.6	1967	6.5	1967	76	81	54	63	9.3	S	56	SW	1949	59	5.2	12	8	11	7	*	2	2	*	0	6	0	996.2
N	48.0	30.0	39.0	80	1933	-9	1976	780	0	1.96	6.47	1934	0.29	1933	2.73	1961	15.6	1974	8.5	1975	75	79	62	69	10.8	WNW	60	W	1952	42	6.7	7	7	16	8	1	1	1	0	2	18	*	995.8
D	34.3	18.4	26.4	69	1970	-22	1963	1197	0	1.92	4.99	1982	0.23	1929	3.38	1942	21.7	1978	9.0	1978	76	77	69	73	10.7	WNW	61	SW	1947	40	6.8	7	6	18	9	2	1	2	0	13	27	4	996.7
YR	59.5	39.5	49.5	106	AUG 1936	-27	JAN 1979	6498	899	37.17	14.18	SEP 1970	0.01	OCT 1964	6.29	SEP 1961	26.7	JAN 1979	16.4	JAN 1971	76	80	59	62	10.0	WNW	77	SW	JUN 1947	56	6.1	99	102	164	113	10	48	18	22	52	136	18	995.0

NOTE: NORMAL COOLING DEGREE DATA PUBLISHED IN THE 1982 ANNUAL WERE FOR THE 1951-1980 PERIOD.

(a) Length of record, years, through the current year unless otherwise noted, based on January data.
(b) 70° and above at Alaskan stations.
* Less than one half.
T Trace.
BLANK entries denote missing or unreported data.

NORMALS - Based on record for the 1951-1980 period.
MEANS - Length of record in (a) is for complete data years.
EXTREMES - Length of record in (a) may be for other than complete or consecutive data years. Date is the most recent in cases of multiple occurrence.
WIND DIRECTION - Numerals indicate tens of degrees clockwise from true north. 00 indicates calm.
FASTEST MILE WIND - Speed is fastest observed 1-minute value when direction is in tens of degrees.

Average Temperature

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1944	30.1	27.4	32.6	46.4	66.2	73.6	73.8	73.4	66.2	53.4	42.5	20.2	50.5
1945	18.2	27.7	48.8	51.6	55.6	66.5	72.2	73.2	63.9	51.0	38.6	19.7	48.9
1946	25.6	29.5	48.0	53.5	57.8	70.2	74.8	69.2	64.8	57.8	40.8	31.4	52.0
1947	27.0	20.1	32.5	48.8	56.5	67.4	72.2	81.0	68.2	62.6	33.8	30.2	50.0
1948	17.5	24.4	35.6	55.2	57.8	69.0	75.1	73.6	67.6	51.1	41.3	29.0	49.8
1949	23.0	24.8	37.1	49.4	63.8	73.6	78.0	73.5	59.0	57.0	41.8	31.0	51.0
1950	25.9	24.7	32.9	43.6	62.0	69.6	71.1	68.5	64.1	59.2	33.8	19.1	47.9
1951	20.6	25.6	31.8	47.3	63.3	67.2	72.9	71.5	61.8	54.6	32.6	23.4	47.7
1952	25.1	31.4	33.5	52.1	60.6	75.7	76.4	71.1	64.7	46.6	41.4	30.5	50.7
1953	25.3	30.0	37.3	45.9	60.5	74.3	75.9	74.3	65.4	57.9	42.8	30.0	51.6
1954	23.3	36.3	34.0	53.7	56.1	74.6	76.2	72.0	67.5	53.1	40.7	29.1	51.4
1955	22.0	25.3	36.0	57.0	63.8	67.8	80.5	76.8	66.4	53.6	34.2	24.2	50.6
1956	22.7	26.9	36.1	47.1	62.6	74.0	73.2	73.3	63.4	59.0	38.4	28.9	50.5
1957	16.6	32.5	37.0	50.4	59.6	70.4	76.7	73.2	61.9	49.8	38.1	32.8	49.9
1958	22.2	16.7	35.7	50.5	62.2	66.3	71.3	73.5	64.4	56.0	42.0	22.2	48.6
1959	15.7	25.7	36.9	49.4	65.3	72.0	73.2	77.2	66.3	49.9	31.4	34.7	49.8
#1960	25.7	22.3	19.9	53.4	58.9	68.5	72.8	73.8	68.6	53.8	41.5	23.7	48.6
1961	21.1	30.7	39.3	44.3	58.1	71.9	74.2	73.9	66.1	55.4	40.8	23.0	49.9
1962	16.2	23.7	32.6	49.3	67.9	70.6	71.6	72.9	61.7	55.2	39.0	23.2	48.7
1963	9.7	17.9	41.1	52.9	60.0	73.5	74.8	70.8	64.9	64.4	43.1	13.8	48.9
1964	28.4	27.0	34.4	51.5	66.3	72.3	76.6	70.8	65.6	50.7	44.2	24.8	51.1
1965	21.4	25.7	26.9	49.2	65.9	69.6	74.9	71.1	63.5	53.6	40.7	34.5	49.8
1966	14.3	24.8	39.2	47.0	56.3	70.5	77.9	70.6	62.9	52.5	41.7	28.1	48.8
1967	26.0	18.7	39.0	51.6	56.4	70.9	71.4	67.7	62.1	52.1	36.1	28.5	48.4
1968	21.0	22.7	41.9	51.3	57.2	72.1	73.1	73.5	63.1	53.2	37.3	24.5	49.3
1969	17.9	27.9	32.2	51.6	61.7	67.1	75.0	73.7	64.9	51.7	37.9	24.3	48.8
1970	13.1	24.7	33.6	51.8	64.9	70.7	75.7	72.9	65.2	53.9	39.2	28.9	49.5
1971	14.8	25.9	34.7	50.9	58.0	76.6	70.7	71.9	68.7	59.9	40.0	31.6	50.3
1972	18.6	20.7	36.0	48.0	63.0	69.4	74.6	74.0	66.7	50.2	37.3	22.3	48.4
1973	27.1	28.7	45.4	49.7	57.6	72.3	74.9	75.1	65.7	57.3	40.4	23.7	51.5
1974	21.6	26.8	38.5	53.3	58.8	67.5	77.3	70.3	60.4	53.7	40.1	28.6	49.8
1975	24.9	25.0	30.6	45.1	63.8	72.3	75.0	75.1	60.9	56.2	45.0	30.3	50.4
1976	19.1	35.2	41.2	52.9	57.5	70.5	75.8	71.8	63.0	46.8	30.1	19.6	48.6
1977	8.2	27.1	43.6	56.6	68.9	70.0	77.5	71.0	65.5	51.2	38.7	21.7	50.0
1978	12.4	14.1	33.0	50.8	60.2	71.0	74.0	73.2	69.2	51.5	39.2	22.7	47.6
1979	6.3	13.2	36.3	47.4	61.9	71.2	73.5	72.0	64.3	52.1	37.0	31.7	47.2
1980	23.4	19.2	33.5	49.1	62.7	69.2	77.6	75.8	65.7	48.6	39.7	26.6	49.3
1981	23.4	27.1	39.4	54.3	57.5	71.0	73.3	71.2	63.5	49.9	41.1	25.3	49.7
1982	10.6	21.4	34.6	44.7	66.1	66.2	75.4	71.3	64.2	54.7	39.2	35.3	48.7
1983	26.9	32.0	38.9	45.5	57.8	72.9	79.4	79.6	65.6	53.1	42.9	14.0	50.7
RECORD MEAN	21.2	26.0	36.2	50.1	61.1	71.1	75.2	73.2	65.0	53.8	39.1	26.6	49.9
MAX	29.7	34.7	45.4	60.9	72.2	82.1	86.2	84.2	76.6	65.3	48.2	34.5	60.0
MIN	12.6	17.2	27.0	39.3	50.0	60.1	64.2	62.2	53.4	42.3	30.0	18.7	39.8

Heating Degree Days

MOLINE, IL

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1963-64	0	16	83	108	653	1585	1129	1097	942	405	71	20	6109
1964-65	3	24	100	437	624	1241	1344	1096	1174	471	86	3	6603
1965-66	0	21	115	363	722	939	1568	1119	794	533	287	31	6492
1966-67	0	6	116	386	695	1137	1202	1289	802	404	305	10	6352
1967-68	21	33	136	424	860	1127	1354	1221	711	409	248	18	6562
1968-69	8	15	96	404	826	1247	1458	1032	1010	398	172	57	6723
1969-70	0	0	80	445	805	1253	1607	1120	967	419	118	21	6835
1970-71	0	2	92	350	764	1111	1556	1088	931	425	242	0	6561
1971-72	17	3	94	195	740	1026	1434	1280	893	504	155	25	6366
1972-73	8	7	80	459	824	1319	1170	1013	598	452	223	1	6154
1973-74	0	0	78	258	733	1274	1338	1061	812	360	235	32	6181
1974-75	0	8	180	349	739	1122	1235	1114	1058	593	117	14	6529
1975-76	9	0	162	297	594	1072	1413	855	731	385	235	2	5755
1976-77	0	5	123	569	1038	1403	1755	1059	656	286	54	15	6963
1977-78	0	5	50	420	780	1337	1625	1417	986	423	229	13	7285
1978-79	1	4	59	415	767	1305	1820	1445	884	521	172	12	7405
1979-80	5	22	95	415	831	1027	1280	1324	966	481	129	27	6602
1980-81	0	1	77	503	755	1180	1281	1055	783	322	253	3	6213
1981-82	12	9	91	459	710	1226	1682	1214	936	604	62	35	7040
1982-83	0	14	110	333	765	916	1175	917	802	578	228	17	5855
1983-84	1	0	110	377	654	1578							

Cooling Degree Days

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
1969	0	0	0	1	77	130	320	276	86	41	0	0	931
1970	0	0	0	32	119	198	341	256	105	15	0	0	1066
1971	0	0	0	9	32	355	203	225	212	44	0	0	1080
1972	0	0	0	3	102	165	312	294	138	6	0	0	1020
1973	0	0	0	2	2	226	312	323	103	27	0	0	995
1974	0	0	0	17	50	113	389	180	45	3	0	0	797
1975	0	0	0	1	85	241	325	319	44	29	0	0	1044
1976	0	0	0	26	12	175	341	221	72	13	0	0	860
1977	0	0	0	44	182	173	397	199	73	0	0	0	1068
1978	0	0	1	0	87	202	288	267	195	5	0	0	1045
1979	0	0	0	0	83	206	272	245	79	22	0	0	907
1980	0	0	0	11	65	158	395	343	107	1	0	0	1080
1981	0	0	0	8	27	191	275	209	50	0	0	0	760
1982	0	0	0	0	102	78	327	215	95	20	0	0	837
1983	0	0	0	1	12	260	453	459	138	14	0	0	1337

Precipitation

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1944	0.60	1.99	5.27	5.55	4.60	6.19	2.40	2.88	1.60	1.06	2.98	1.54	36.66
1945	0.44	0.90	3.36	3.88	5.07	2.52	1.39	3.86	4.74	1.09	1.71	1.69	30.65
1946	2.53	0.28	4.64	0.68	4.10	6.42	1.47	3.91	3.47	1.65	2.49	1.43	33.07
1947	2.08	0.23	2.10	7.36	3.70	5.99	4.08	0.52	5.13	0.88	1.92	1.64	35.63
1948	0.84	2.35	3.46	1.67	2.11	2.91	8.27	2.83	3.66	1.81	2.23	2.21	34.35
1949	3.28	1.78	2.76	1.10	1.82	5.45	3.40	7.12	1.96	2.27	0.71	2.91	34.56
1950	3.56	1.76	1.09	5.87	3.01	5.11	4.41	1.87	3.85	0.61	0.73	1.01	32.88
1951	1.05	2.56	5.06	3.60	5.90	6.65	5.60	8.00	3.47	3.75	1.68	1.28	48.60
1952	1.57	0.78	3.88	1.17	2.22	7.13	2.66	3.50	0.77	0.04	2.99	1.93	28.64
1953	1.04	2.72	2.68	1.73	3.18	3.43	4.88	1.05	1.79	1.00	1.07	1.90	26.47
1954	0.34	1.69	3.13	4.58	3.58	5.10	1.98	6.67	1.59	7.43	0.75	2.02	38.86
1955	2.03	1.88	1.20	5.33	2.30	3.65	1.02	2.44	2.40	2.70	0.60	0.54	26.09
1956	0.31	1.39	0.54	2.15	2.27	1.55	4.09	3.34	0.49	0.40	2.43	1.24	20.20
1957	1.33	1.57	2.90	3.49	4.11	2.52	4.47	3.17	1.16	2.00	2.38	3.82	32.92
1958	1.26	0.49	0.31	2.53	3.96	3.77	4.62	1.09	3.00	1.75	1.17	0.50	24.45
1959	1.41	1.77	3.06	4.75	5.31	3.62	4.48	3.90	4.29	5.59	1.50	2.42	42.10
1960	3.43	2.78	1.28	4.89	3.98	5.40	3.40	3.97	3.42	4.91	1.11	0.88	39.45
1961	0.31	1.20	4.48	2.19	1.98	3.69	7.63	2.37	11.00	4.53	4.94	1.58	45.90
1962	2.08	1.84	2.42	2.44	6.10	1.48	6.73	1.95	2.90	4.15	1.21	0.55	33.85
1963	0.91	0.37	3.29	4.24	2.36	1.02	8.78	4.02	2.38	0.63	1.84	0.94	30.78
1964	1.59	0.73	4.02	6.37	2.68	3.89	5.31	2.41	3.99	0.01	3.40	1.27	35.67
1965	4.08	0.97	2.52	7.92	4.04	2.07	4.78	9.31	8.27	0.88	1.93	2.82	49.59
1966	2.01	0.89	0.85	3.96	6.39	4.25	7.74	0.77	2.80	4.38	1.12	2.52	37.68
1967	2.00	1.11	1.68	4.91	1.70	8.15	4.15	3.62	4.99	6.23	2.26	1.56	42.36
1968	0.80	0.32	1.96	3.57	2.59	3.70	3.91	2.16	5.70	1.09	3.29	2.76	31.85
1969	3.28	0.21	2.25	3.11	3.40	6.97	11.39	2.00	2.50	4.63	0.53	1.52	41.79
1970	0.54	0.57	2.62	4.66	11.07	3.25	6.27	3.61	14.18	1.75	1.25	1.95	51.72
1971	1.79	1.57	1.99	1.86	3.14	2.36	11.22	0.35	4.54	2.64	2.21	4.77	38.44
1972	1.19	1.24	3.73	5.19	4.24	8.66	3.79	8.20	3.29	2.39	2.75	1.98	46.65
1973	2.53	1.94	7.43	11.30	6.96	6.58	2.63	2.30	6.74	3.06	1.15	3.74	56.36
1974	4.39	1.57	2.94	5.08	11.43	8.83	1.73	3.37	1.08	1.99	2.59	1.83	46.83
1975	1.50	1.75	3.30	2.88	3.23	3.50	2.71	3.23	1.99	0.90	2.98	0.98	28.95
1976	0.88	1.11	3.67	4.21	4.13	2.02	3.34	0.60	1.89	2.13	0.65	0.34	24.97
1977	0.87	0.62	4.61	1.57	2.66	5.18	6.04	6.98	4.80	4.09	2.78	1.76	41.96
1978	0.59	0.67	0.78	3.02	4.65	3.50	3.24	2.47	3.91	1.95	3.32	3.17	31.27
1979	2.72	1.02	2.77	4.01	2.86	2.85	4.40	6.94	0.02	2.51	2.13	2.27	34.50
1980	1.31	1.55	1.74	2.34	4.01	4.97	3.46	9.09	2.94	1.63	0.70	2.75	36.49
1981	0.32	2.45	0.69	4.48	1.48	5.51	3.07	6.90	4.20	4.42	2.42	0.72	36.66
1982	2.08	0.45	3.85	3.33	5.03	3.61	8.83	2.89	1.94	3.38	3.64	4.99	44.02
1983	0.55	1.50	2.88	4.88	2.06	5.21	2.79	0.96	5.30	2.36	5.78	2.55	36.82
RECORD MEAN	1.59	1.27	2.59	3.72	3.95	4.43	4.25	3.61	3.73	2.65	2.16	1.78	35.73

Snowfall

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1944-45	0.0	0.0	0.0	0.0	0.3	13.9	5.8	4.3	0.7	T	T	0.0	25.0
1945-46	0.0	0.0	0.0	0.0	1.0	11.4	2.5	4.4	2.8	T	0.0	0.0	22.1
1946-47	0.0	0.0	0.0	T	0.0	5.3	8.5	4.3	7.2	T	0.0	0.0	25.3
1947-48	0.0	0.0	0.0	0.0	7.7	1.8	3.8	3.0	8.0	0.0	0.0	0.0	24.3
1948-49	0.0	0.0	0.0	0.0	T	6.2	5.3	2.5	0.9	1.1	0.0	0.0	16.0
1949-50	0.0	0.0	0.0	0.0	0.5	2.3	1.7	7.9	2.5	0.4	0.0	0.0	15.3
1950-51	0.0	0.0	0.0	0.0	2.1	7.3	7.1	4.9	17.0	1.4	0.0	0.0	39.8
1951-52	0.0	0.0	0.0	T	3.4	16.7	4.7	5.9	15.2	T	0.0	0.0	45.9
1952-53	0.0	0.0	0.0	0.0	T	2.5	12.1	6.2	7.1	0.4	0.0	0.0	28.3
1953-54	0.0	0.0	0.0	0.0	1.4	7.8	1.4	4.9	2.2	0.0	T	0.0	17.7
1954-55	0.0	0.0	0.0	T	3.7	16.2	11.2	6.1	8.8	0.0	0.0	0.0	46.0
1955-56	0.0	0.0	0.0	T	2.0	2.9	2.2	7.5	0.7	0.3	0.0	0.0	15.6
1956-57	0.0	0.0	0.0	0.0	2.1	6.5	11.8	0.7	6.9	6.5	0.0	0.0	34.5
1957-58	0.0	0.0	0.0	0.0	0.3	6.4	14.0	1.7	2.0	T	0.0	0.0	24.4
1958-59	0.0	0.0	0.0	0.0	0.9	8.1	15.1	3.6	13.9	1.7	0.0	0.0	43.3
1959-60	0.0	0.0	0.0	T	9.1	9.9	8.5	19.3	14.7	T	T	0.0	61.5
1960-61	0.0	0.0	0.0	0.0	T	5.5	3.4	2.5	2.4	2.5	0.0	0.0	16.3
1961-62	0.0	0.0	0.0	0.0	T	13.6	11.2	15.8	7.1	0.2	0.0	0.0	47.9
1962-63	0.0	0.0	0.0	0.2	T	3.1	14.7	5.8	7.3	0.0	0.0	0.0	31.1
1963-64	0.0	0.0	0.0	0.0	T	9.7	5.3	5.5	13.9	T	0.0	0.0	34.4
1964-65	0.0	0.0	0.0	0.0	2.1	11.7	10.2	7.4	16.2	0.0	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.3	5.7	6.0	0.8	0.7	0.1	T	0.0	13.6
1966-67	0.0	0.0	0.0	0.0	T	7.2	14.4	13.2	2.2	1.1	0.0	0.0	38.1
1967-68	0.0	0.0	0.0	6.6	0.3	3.2	8.6	2.8	1.1	T	0.0	0.0	22.6
1968-69	0.0	0.0	0.0	T	5.9	5.4	6.2	0.9	5.6	0.0	T	0.0	24.0
1969-70	0.0	0.0	0.0	0.0	1.5	15.4	7.2	6.1	12.7	8.3	0.0	0.0	51.2
1970-71	0.0	0.0	0.0	0.0	0.2	2.2	17.7	2.6	7.8	T	0.0	0.0	30.5
1971-72	0.0	0.0	0.0	0.0	5.9	0.3	11.8	13.7	19.8	2.6	0.0	0.0	54.1
1972-73	0.0	0.0	0.0	2.0	6.7	6.6	0.4	8.6	0.5	0.9	0.0	0.0	25.7
1973-74	0.0	0.0	0.0	0.0	T	11.4	12.7	7.4	3.0	0.6	0.0	0.0	35.1
1974-75	0.0	0.0	0.0	0.0	15.6	8.8	7.6	19.3	12.2	6.2	0.0	0.0	69.7
1975-76	0.0	0.0	0.0	0.0	9.9	2.5	8.6	0.1	0.6	0.0	T	0.0	21.7
1976-77	0.0	0.0	0.0	0.0	7.7	4.1	12.3	2.5	10.8	1.0	0.0	0.0	38.4
1977-78	0.0	0.0	0.0	0.0	4.8	20.8	6.1	6.8	6.5	T	0.0	0.0	45.0
1978-79	0.0	0.0	0.0	0.0	7.1	21.7	26.7	4.5	3.4	0.6	0.0	0.0	64.0
1979-80	0.0	0.0	0.0	T	1.9	0.8	4.2	13.1	7.5	9.5	0.0	0.0	37.0
1980-81	0.0	0.0	0.0	2.4	1.1	4.5	5.3	5.6	T	0.0	0.0	0.0	18.9
1981-82	0.0	0.0	0.0	T	3.3	4.3	13.6	4.5	6.6	13.0	0.0	0.0	45.3
1982-83	0.0	0.0	0.0	0.0	T	0.5	4.7	6.2	12.7	0.7	0.0	0.0	24.8
1983-84	0.0	0.0	0.0	T	0.9	18.9							
RECORD MEAN	0.0	0.0	T	0.2	2.4	7.1	8.0	5.8	6.5	1.2	T	0.0	31.2

# Indicates a station move or relocation of instruments. See Station Location table.

Record mean values above are means through the current year for the period beginning in 1930 for temperature, 1927 for precipitation, and 1933 for snowfall.

STATION LOCATION

MOLINE, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Sunshine Switch	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Automatic Observing Equipment *	Remarks
NE Corner, Moline AP 4.5 miles S of Moline Post Office	10/1/26	12/27/39	NA	41° 27'	90° 31'	589	53	3	3				3			
Administration Building Quad City Airport	12/27/39	4/3/61	1200 feet W	41° 27'	90° 31'	589 h582	62 f25	5 b36 c5 d36	5 a36 c5 d36	Unk		4 e5	15	g4		a - Moved to roof site 12/1/54. b - Moved to roof site 5/31/55. c - Moved to field site 6/7/56. d - Moved to roof site 4/16/58. e - Effective 4/16/58. f - Moved to field site 11/13/58. g - Telepsychrometer (5') 6/7/56-3/1/60. Hygro. comm. 3/1/60. h - Effective 3/1/60.
Terminal Building Quad City Airport	4/4/61	Present	200 feet SE	41° 27'	90° 31'	582	i25	17	17	27	k16	i5 j16	15	i4	NA	i - Not moved 4/4/61. j - Effective 7/22/63. k - Added 6/1/64.

* Type
M = AMOS
T = AUTOB

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F. Kay Hoxit
Acting Director
National Climatic Data Center

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Local Climatological Data

Annual Summary With Comparative Data

1982

MOLINE, ILLINOIS

Narrative Climatological Summary

This area has a temperate continental climate, with a wide temperature range throughout the year. There are some intensely hot, usually humid, periods in summer and severely cold periods in winter. Maxima of 90° or higher have occured as frequently as on 55 days (1936), but in 1882 there were none. Zero or lower readings have occurred during every winter of record ranging from 37 times in 1874-75 to 1 time during 4 winters.

Freezing temperatures have occurred as late in spring as May 20 and as early in autumn as September 20. Precipitation usually is well distributed throughout the year. Normally the greatest amounts fall during the 177-day average crop growing season (April 21-October 14, inclusive). Substantial weather changes frequently occur at 3- or 4-day intervals, as a direct result of proximity to some of the most important storm tracks.

The locality is in the heart of the Corn Belt. Agricultural crops include many important staple products in addition to corn. Cattle, hogs, horses, and poultry produced in Iowa and Illinois rank high in the nation. Close to the Mississippi River there is large scale truck gardening and considerable dairying. Field production of grains and livestock attains greater development farther away from the large streams, where the countryside is rolling prairie. Damaging drouths are not common. This, together with the variety of agricultural products, has led to designating the section as the "Bread Basket" of America.

The climate is favorable for many industries as evidenced by the large number and variety of manufacturing and other enterprises which have located and developed in the community. Among these are some of the world's largest producers of agricultural machinery.

Records began in Davenport, Iowa, in May 1871, and have been continuous to date. At the Quad-City Airport, Moline, Illinois, records began in October 1926, but are not complete in the years 1935, 1936, and 1937. For a summary of data from Lock & Dam No. 15, Davenport, Iowa, please refer to IOWA CLIMATOLOGICAL DATA.

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LOCAL CLIMATOLOGICAL DATA, ANNUAL SUMMAR
1982
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Meteorological Data For The Current Year

Station: MOLINE, ILLINOIS # 14923 — QUAD CITY AIRPORT — Standard time used: CENTRAL — Latitude: 41° 27′ N — Longitude: 90° 31′ W — Elevation (ground): 582 feet — Year: 1982

Month	Temperature °F: Averages: Daily maximum	Daily minimum	Monthly	Extremes: Highest	Date	Lowest	Date	Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Total	Greatest in 24 hrs.	Date	Snow, Ice pellets: Total	Greatest in 24 hrs.	Date	Relative humidity, pct. (Local time): Hour 00	Hour 06	Hour 12	Hour 18	Wind: Resultant: Direction	Speed m.p.h.	Average speed m.p.h.	Fastest mile: Speed m.p.h.	Direction	Date	Percent of possible sunshine	Average sky cover, tenths, sunrise to sunset	Number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperature °F: Maximum (b): 90° and above	32° and below	Minimum: 32° and below	0° and below	Average station pressure mb. Elev. 594 feet m.s.l.
JAN	19.9	1.3	10.6	39	22	-23	10	1682	0	2.08	0.62	3-4	13.6	4.2	3-4	71	68	63	68	29	5.1	14.1	45	SW	22	42	6.9	6	7	18	15	4	0	0	0	25	31	14	996.6
FEB	30.0	12.8	21.4	51	22	-16	6	1214	0	0.45	0.23	4-5	4.5	3.2	4-5	73	75	64	66	28	1.1	9.8	25	W	9	53	6.4	8	7	13	6	2	0	2	0	15	25	8	1001.4
MAR	43.2	26.0	34.6	68	30	2	6	936	0	3.85	1.13	19-20	6.6	4.1	3-4	73	78	60	61	27	1.9	13.5	46	SW	30	48	6.5	8	6	17	16	4	5	2	0	7	20	0	994.9
APR	56.4	32.9	44.7	75	15	7	7	604	0	3.33	1.56	16	13.0	7.8	5	68	74	49	52	21	1.8	13.0	42	W	3	51	6.3	8	9	13	9	2	4	0	0	3	13	0	994.9
MAY	77.5	54.7	66.1	87	17	41	7	62	102	5.03	1.53	26-27	0.0	0.0		76	82	53	59	18	4.8	10.5	30	S	6	38	8.2	2	6	23	16	0	15	2	0	0	0	0	992.2
JUN	77.6	54.7	66.2	89	25	44	5	35	78	3.61	2.37	14-15	0.0	0.0		79	83	52	56	24	1.0	10.1	27	W	20	61	5.9	8	9	13	11	0	8	0	0	0	0	0	992.9
JUL	85.1	65.6	75.4	92	5	52	1	0	327	8.83	3.55	6	0.0	0.0		87	89	65	68	19	2.7	9.2	36	NW	6	67	5.4	11	10	10	12	0	10	1	4	0	0	0	993.9
AUG	81.4	61.1	71.3	96	3	47	28	14	215	2.89	1.32	4-5	0.0	0.0		86	90	61	65	13	1.5	8.4	33	W	24	61	5.9	7	11	13	9	0	6	1	4	0	0	0	996.3
SEP	74.8	53.6	64.2	87	11	38	22	110	95	1.94	0.84	17	0.0	0.0		87	90	61	68	14	1.6	9.3	24	SE	28	51	5.6	9	10	11	7	0	4	2	0	0	0	0	996.3
OCT	66.5	42.8	54.7	85	1	24	22	333	20	3.38	1.36	8-9	0.0	0.0		75	80	50	63	21	5.4	9.6	42	SW	19	55	5.5	11	8	12	7	0	5	1	0	0	6	0	995.9
NOV	48.0	30.4	39.2	69	20	15	24	765	0	3.64	1.45	11-12	T	T	23	74	77	63	68	23	3.1	11.3	42	W	12	24	8.0	5	1	24	13	0	2	2	0	4	19	0	997.0
DEC	42.5	28.0	35.3	65	2	8	12	916	0	4.99	3.12	2-3	0.5	0.3	15-16	80	79	69	76	22	3.6	11.9	46	W	28	28	7.3	6	6	19	11	0	3	3	0	5	21	0	995.9
YEAR	58.6	38.7	48.7	96	AUG 3	-23	JAN 10	6671	837	44.02	3.55	JUL 6	38.2	7.8	APR 5	77	80	59	64	22	2.0	10.9	46	W	DEC 28	50	6.5	89	90	186	132	12	62	16	8	59	135	22	995.7

Normals, Means, And Extremes

Month	Temperatures °F: Normal: Daily maximum	Daily minimum	Monthly	Extremes: Record highest	Year	Record lowest	Year	Normal Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Normal	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year	Snow, Ice pellets: Maximum monthly	Year	Maximum in 24 hrs.	Year	Relative humidity pct. (Local time): Hour 00	Hour 06	Hour 12	Hour 18	Wind: Mean speed m.p.h.	Prevailing direction	Fastest mile: Speed m.p.h.	Direction	Year	Pct. of possible sunshine	Mean sky cover, tenths, sunrise to sunset	Mean number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperatures °F: Max. (b): 90° and above	32° and below	Min.: 32° and below	0° and below	Average station pressure mb. Elev. 594 feet m.s.l.
(a)				50		50					53		53		53		51		49		22	22	22	22	39	12	53	53		39	40	49	49	49	50	50	49	48	22	22	22	22	10
J	30.0	13.0	21.5	65	1950	-27	1979	1349	0	1.66	4.39	1974	0.31	1961	2.07	1960	26.7	1979	16.4	1971	71	72	64	68	10.9	WNW	56	SW	1946	48	6.5	8	7	16	9	3	*	2	0	20	30	10	997.6
F	34.3	17.0	25.7	71	1976	-25	1979	1100	0	1.29	2.78	1960	0.17	1933	1.90	1948	19.3	1975	10.1	1975	73	74	63	66	11.0	WNW	58	NW	1948	50	6.4	7	7	14	8	2	1	2	0	14	26	5	997.4
M	45.0	26.4	35.7	83	1945	-19	1960	908	0	2.57	7.43	1973	0.31	1958	2.38	1944	19.8	1972	11.0	1972	74	78	60	62	12.1	WNW	66	SW	1954	50	6.8	7	8	16	11	2	2	2	0	4	21	*	993.4
A	61.3	39.8	50.6	92	1980	7	1982	436	0	3.82	11.30	1973	0.68	1946	5.81	1973	13.0	1982	8.2	1970	73	78	55	55	12.2	NW	73	SW	1947	53	6.6	6	9	15	11	*	5	1	*	*	7	0	993.6
M	72.0	50.2	61.1	104	1934	26	1966	184	62	3.92	11.43	1974	0.55	1928	3.68	1970	0.3	1935	0.3	1935	75	80	53	53	10.3	E	68	SW	1955	57	6.3	7	10	14	12	0	7	1	1	0	1	0	992.1
J	81.4	60.2	70.8	104	1934	39	1972	20	200	4.42	8.83	1974	1.02	1963	5.02	1967	0.0		0.0		77	81	53	54	9.3	S	77	SW	1947	63	6.0	7	11	12	10	0	8	1	5	0	0	0	992.6
J	85.2	63.8	74.5	105	1940	46	1971	0	307	4.58	11.39	1969	1.02	1955	5.41	1963	0.0		0.0		82	85	58	60	7.7	E	65	W	1953	69	5.4	10	12	9	10	0	9	1	7	0	0	0	994.1
A	83.8	62.0	72.9	106	1936	40	1934	11	250	3.37	9.31	1965	0.35	1971	4.60	1951	0.0		0.0		84	89	58	62	7.3	E	63	SW	1978	67	5.4	10	11	10	9	0	7	2	5	0	0	0	995.1
S	76.0	53.2	64.6	100	1939	24	1942	79	66	3.84	14.18	1970	0.02	1979	6.29	1961	0.1	1942	0.1	1942	83	87	57	66	8.2	S	66	NW	1945	64	5.1	12	8	10	9	0	4	2	2	0	*	0	995.8
O	66.0	42.8	54.4	92	1963	16	1952	344	14	2.69	9.41	1941	0.01	1964	4.89	1954	6.6	1967	6.5	1967	76	81	54	63	9.3	S	56	SW	1949	60	5.2	12	8	11	7	*	2	2	*	0	6	0	996.1
N	48.1	30.2	39.2	80	1933	-9	1976	774	0	1.87	6.47	1934	0.29	1933	2.73	1961	15.6	1974	8.5	1975	75	79	62	69	10.8	WNW	60	W	1952	43	6.6	7	7	16	8	1	1	1	0	2	18	*	996.3
D	34.6	18.5	26.6	69	1970	-22	1963	1190	0	1.77	4.99	1982	0.23	1929	3.38	1942	21.7	1978	9.0	1978	76	78	69	73	10.7	WNW	61	SW	1947	41	6.8	7	6	18	9	2	1	2	0	13	27	3	996.3
YR	59.8	39.8	49.8	106	AUG 1936	-27	JAN 1979	6395	899	35.80	14.18	SEP 1970	0.01	OCT 1964	6.29	SEP 1961	26.7	JAN 1979	16.4	JAN 1971	76	80	59	62	10.0	WNW	77	SW	JUN 1947	57	6.1	100	104	161	113	10	48	18	21	52	136	18	995.0

(a) Length of record, years, through the current year unless otherwise noted, based on January data.
(b) 70° and above at Alaskan stations.
* Less than one half.
T Trace.

NORMALS - Based on record for the 1941-1970 period.
DATE OF AN EXTREME - The most recent in cases of multiple occurrence.
PREVAILING WIND DIRECTION - Record through 1963.
WIND DIRECTION - Numerals indicate tens of degrees clockwise from true north. 00 indicates calm.
FASTEST MILE WIND - Speed is fastest observed 1-minute value when the direction is in tens of degrees.

Average Temperature

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1943	19.6	27.3	32.3	48.2	57.8	73.2	75.9	74.8	61.2	52.2	35.0	26.9	48.7
1944	30.1	27.4	32.6	46.4	66.2	73.6	73.8	73.4	66.2	53.4	42.5	20.2	50.5
1945	18.2	27.7	48.8	51.6	55.6	66.5	72.2	73.2	63.9	51.0	38.6	19.7	48.9
1946	25.6	29.5	48.0	53.5	57.8	70.2	74.8	69.2	64.8	57.8	40.8	31.4	52.0
1947	27.0	20.1	32.5	48.8	56.5	67.4	72.2	81.0	68.2	62.6	33.8	30.2	50.0
1948	17.5	24.4	35.6	55.2	57.8	69.0	75.1	73.6	67.6	51.1	41.3	29.0	49.8
1949	23.0	24.8	37.1	49.4	63.8	73.6	78.0	73.5	59.0	57.0	41.8	31.0	51.0
1950	25.9	24.7	32.9	43.6	62.0	69.6	71.1	68.5	64.1	59.2	33.8	19.1	47.9
1951	20.6	25.6	31.8	47.3	63.3	67.2	72.9	71.5	61.8	54.6	32.6	23.4	47.7
1952	25.1	31.4	33.5	52.1	60.6	75.7	76.4	71.1	64.7	46.6	41.4	30.5	50.7
1953	25.3	30.0	37.3	45.9	60.5	74.3	75.9	74.3	65.4	57.9	42.8	30.0	51.6
1954	23.3	36.3	34.0	53.7	56.1	74.6	76.2	72.0	67.5	53.1	40.7	29.1	51.4
1955	22.0	25.3	36.0	57.0	63.8	67.8	80.5	76.8	66.4	53.6	34.2	24.2	50.6
1956	22.7	26.9	36.1	47.1	62.6	74.0	73.2	73.3	63.4	59.0	38.4	28.9	50.5
1957	16.6	32.5	37.0	50.4	59.6	70.4	76.7	73.2	61.9	49.8	38.1	32.8	49.9
1958	22.2	16.7	35.7	50.5	62.2	66.3	71.3	73.5	64.4	56.0	42.0	22.2	48.6
1959	15.7	25.7	36.9	49.4	65.3	72.0	73.2	77.2	66.3	49.9	31.4	34.7	49.8
#1960	25.7	22.3	19.9	53.4	58.9	68.5	72.8	73.8	68.6	53.8	41.5	23.7	48.6
1961	21.1	30.7	39.3	44.3	58.1	71.9	74.2	73.9	66.1	55.4	40.8	23.0	49.9
1962	16.2	23.7	32.6	49.3	67.9	70.6	71.6	72.9	61.7	55.2	39.0	23.2	48.7
1963	9.7	17.9	41.1	52.9	60.0	73.5	74.8	70.8	64.9	64.4	43.1	13.8	48.9
1964	28.4	27.0	34.4	51.5	66.3	72.3	76.6	70.8	65.6	50.7	44.2	24.8	51.1
1965	21.4	25.7	26.9	49.2	65.9	69.6	74.9	71.1	63.5	53.6	40.7	34.5	49.8
1966	14.3	24.8	39.2	47.0	56.3	70.5	77.9	70.6	62.9	52.5	41.7	28.1	48.8
1967	26.0	18.7	39.0	51.6	56.4	70.9	71.4	67.7	62.1	52.1	36.1	28.5	48.4
1968	21.0	22.7	41.9	51.3	57.2	72.1	73.1	73.5	63.1	53.2	37.3	24.5	49.3
1969	17.9	27.9	32.2	51.6	61.7	67.1	75.0	73.7	64.9	51.7	37.9	24.3	48.8
1970	13.1	24.7	33.6	51.8	64.9	70.7	75.7	72.9	65.2	53.9	39.2	28.9	49.5
1971	14.8	25.9	34.7	50.9	58.0	76.6	70.7	71.9	68.7	59.9	40.0	31.6	50.3
1972	18.6	20.7	36.0	48.0	63.0	69.4	74.6	74.0	66.7	50.2	37.3	22.3	48.4
1973	27.1	28.7	45.4	49.7	57.6	72.3	74.9	75.1	65.7	57.3	40.4	23.7	51.5
1974	21.6	26.8	38.5	53.3	58.8	67.5	77.3	70.3	60.4	53.7	40.1	28.6	49.8
1975	24.9	25.0	30.6	45.1	63.8	72.3	75.0	75.1	60.9	56.2	45.0	30.3	50.4
1976	19.1	35.2	41.2	52.9	57.5	70.5	75.8	71.8	63.0	46.8	30.1	19.6	48.6
1977	8.2	27.1	43.6	56.6	68.9	70.0	77.5	71.0	65.5	51.2	38.7	21.7	50.0
1978	12.4	14.1	33.0	50.8	60.2	71.0	74.0	73.2	69.2	51.5	39.2	22.7	47.6
1979	6.3	13.2	36.3	47.4	61.9	71.2	73.5	72.0	64.3	52.1	37.0	31.7	47.2
1980	23.4	19.2	33.5	49.1	62.7	69.2	77.6	75.8	65.7	48.6	39.7	26.6	49.3
1981	23.4	27.1	39.4	54.3	57.5	71.0	73.3	71.2	63.5	49.9	41.1	25.3	49.7
1982	10.6	21.4	34.6	44.7	66.1	66.2	75.4	71.3	64.2	54.7	39.2	35.3	48.7
RECORD MEAN	21.1	25.9	36.2	50.2	61.2	71.1	75.1	73.1	65.0	53.8	39.0	26.9	49.9
MAX	29.7	34.6	45.4	61.0	72.3	82.1	86.1	84.0	76.5	65.3	48.1	34.8	60.0
MIN	12.5	17.1	26.9	39.3	50.1	60.1	64.1	62.1	53.4	42.3	29.9	18.9	39.7

Heating Degree Days

MOLINE, IL

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1962-63	8	1	149	342	774	1292	1717	1315	734	370	186	15	6903
1963-64	0	16	83	108	653	1585	1129	1097	942	405	71	20	6109
1964-65	3	24	100	437	624	1241	1344	1096	1174	471	86	3	6603
1965-66	0	21	115	363	722	939	1568	1119	794	533	287	31	6492
1966-67	0	6	116	386	695	1137	1202	1289	802	404	305	10	6352
1967-68	21	33	136	424	860	1127	1354	1221	711	409	248	18	6562
1968-69	8	15	96	404	826	1247	1458	1032	1010	398	172	57	6723
1969-70	0	0	80	445	805	1253	1607	1120	967	419	118	21	6835
1970-71	0	2	92	350	764	1111	1556	1088	931	425	242	0	6561
1971-72	17	3	94	195	740	1026	1434	1280	893	504	155	25	6366
1972-73	8	7	80	459	824	1319	1170	1013	598	452	223	1	6154
1973-74	0	0	78	258	733	1274	1338	1061	812	360	235	32	6181
1974-75	0	8	180	349	739	1122	1235	1114	1058	593	117	14	6529
1975-76	9	0	162	297	594	1072	1413	955	731	385	235	2	5755
1976-77	0	5	123	569	1038	1403	1755	1059	656	286	54	15	6963
1977-78	0	5	50	420	780	1337	1625	1417	986	423	229	13	7285
1978-79	1	4	59	415	767	1305	1820	1445	884	521	172	12	7405
1979-80	5	22	95	415	831	1027	1280	1324	966	481	129	27	6602
1980-81	0	1	77	503	755	1180	1281	1055	783	322	253	3	6213
1981-82	12	9	91	459	710	1226	1682	1214	936	604	62	35	7040
1982-83	0	14	110	333	765	916							

Cooling Degree Days

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
1969	0	0	0	1	77	130	320	276	86	41	0	0	931
1970	0	0	0	32	119	198	341	256	105	15	0	0	1066
1971	0	0	0	9	32	355	203	225	212	44	0	0	1080
1972	0	0	0	3	102	165	312	294	138	6	0	0	1020
1973	0	0	0	2	2	226	312	323	103	27	0	0	995
1974	0	0	0	17	50	113	389	180	45	3	0	0	797
1975	0	0	0	1	85	241	325	319	44	29	0	0	1044
1976	0	0	0	26	12	175	341	221	72	13	0	0	860
1977	0	0	0	44	182	173	397	199	73	0	0	0	1068
1978	0	0	1	0	87	202	288	267	195	5	0	0	1045
1979	0	0	0	0	83	206	272	245	79	22	0	0	907
1980	0	0	0	11	65	158	395	343	107	1	0	0	1080
1981	0	0	0	8	27	191	275	209	50	0	0	0	760
1982	0	0	0	0	102	78	327	215	95	20	0	0	837

Precipitation

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1943	1.36	1.84	1.49	5.61	6.38	4.55	2.10	4.31	1.23	3.24	1.77	0.41	34.29
1944	0.60	1.99	5.27	5.55	4.60	6.19	2.40	2.88	1.60	1.06	2.98	1.54	36.66
1945	0.44	0.90	3.36	3.88	5.07	2.52	1.39	3.86	4.74	1.09	1.71	1.69	30.65
1946	2.53	0.28	4.64	0.68	4.10	6.42	1.47	3.91	3.47	1.65	2.49	1.43	33.07
1947	2.08	0.23	2.10	7.36	3.70	5.99	4.08	0.52	5.13	0.88	1.92	1.64	35.63
1948	0.84	2.35	3.46	1.67	2.11	2.91	8.27	2.83	3.66	1.81	2.23	2.21	34.35
1949	3.28	1.78	2.76	1.10	1.82	5.45	3.40	7.12	1.96	2.27	0.71	2.91	34.56
1950	3.56	1.76	1.09	5.87	3.01	5.11	4.41	1.87	3.85	0.61	0.73	1.01	32.88
1951	1.05	2.56	5.06	3.60	5.90	6.65	5.60	8.00	3.47	3.75	1.68	1.28	48.60
1952	1.57	0.78	3.88	1.17	2.22	7.13	2.66	3.50	0.77	0.04	2.99	1.93	28.64
1953	1.04	2.72	2.68	1.73	3.18	3.43	4.88	1.05	1.79	1.00	1.07	1.90	26.47
1954	0.34	1.69	3.13	4.58	3.58	5.10	1.98	6.67	1.59	7.43	0.75	2.02	38.86
1955	2.03	1.88	1.20	5.33	2.30	3.65	1.02	2.44	2.40	2.70	0.60	0.54	26.09
1956	0.31	1.39	0.54	2.15	2.27	1.55	4.09	3.34	0.49	0.40	2.43	1.24	20.20
1957	1.33	1.57	2.90	3.49	4.11	2.52	4.47	3.17	1.16	2.00	2.38	3.82	32.92
1958	1.26	0.49	0.31	2.53	3.96	3.77	4.62	1.09	3.00	1.75	1.17	0.50	24.45
1959	1.41	1.77	3.06	4.75	5.31	3.62	4.48	3.90	4.29	5.59	1.50	2.42	42.10
1960	3.43	2.78	1.28	4.89	3.98	5.40	3.40	3.97	3.42	4.91	1.11	0.88	39.45
1961	0.31	1.20	4.48	2.19	1.98	3.69	7.63	2.37	11.00	4.53	4.94	1.58	45.90
1962	2.08	1.84	2.42	2.44	6.10	1.48	6.73	1.95	2.90	4.15	1.21	0.55	33.85
1963	0.91	0.37	3.29	4.24	2.36	1.02	8.78	4.02	2.38	0.63	1.84	0.94	30.78
1964	1.59	0.73	4.02	6.37	2.68	3.89	5.31	2.41	3.99	0.01	3.40	1.27	35.67
1965	4.08	0.97	2.52	7.92	4.04	2.07	4.78	9.31	8.27	0.88	1.93	2.82	49.59
1966	2.01	0.89	0.85	3.96	6.39	4.25	7.74	0.77	2.80	4.38	1.12	2.52	37.68
1967	2.00	1.11	1.68	4.91	1.70	8.15	4.15	3.62	4.99	6.23	2.26	1.56	42.36
1968	0.80	0.32	1.96	3.57	2.59	3.70	3.91	2.16	5.70	1.09	3.29	2.76	31.85
1969	3.28	0.21	2.25	3.11	3.40	6.97	11.39	2.00	2.50	4.63	0.53	1.52	41.79
1970	0.54	0.57	2.62	4.66	11.07	3.25	6.27	3.61	14.18	1.75	1.25	1.95	51.72
1971	1.79	1.57	1.99	1.86	3.14	2.36	11.22	0.35	4.54	2.64	2.21	4.77	38.44
1972	1.19	1.24	3.73	5.19	4.24	8.66	3.79	8.20	3.29	2.39	2.75	1.98	46.65
1973	2.53	1.94	7.43	11.30	6.96	6.58	2.63	2.30	6.74	3.06	1.15	3.74	56.36
1974	4.39	1.57	2.94	5.08	11.43	8.83	1.73	3.37	1.08	1.99	2.59	1.83	46.83
1975	1.50	1.75	3.30	2.88	3.23	3.50	2.71	3.23	1.99	0.90	2.98	0.98	28.95
1976	0.88	1.11	3.67	4.21	4.13	2.02	3.34	0.60	1.89	2.13	0.65	0.34	24.97
1977	0.87	0.62	4.61	1.57	2.66	5.18	6.04	6.98	4.80	4.09	2.78	1.76	41.96
1978	0.59	0.67	0.78	3.02	4.65	3.50	3.24	2.47	3.91	1.95	3.32	3.17	31.27
1979	2.72	1.02	2.77	4.01	2.86	2.85	4.40	6.94	0.02	2.51	2.13	2.27	34.50
1980	1.31	1.55	1.74	2.34	4.01	4.97	3.46	9.09	2.94	1.63	0.70	2.75	36.49
1981	0.32	2.45	0.69	4.48	1.48	5.51	3.07	6.90	4.20	4.42	2.42	0.72	36.66
1982	2.08	0.45	3.85	3.33	5.03	3.61	8.83	2.89	1.94	3.38	3.64	4.99	44.02
RECORD MEAN	1.61	1.26	2.58	3.70	3.99	4.42	4.27	3.66	3.70	2.66	2.09	1.77	35.71

Snowfall

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1943-44	0.0	0.0	0.0	0.0	T	0.4	T	12.6	4.3	T	T	0.0	17.3
1944-45	0.0	0.0	0.0	0.0	0.3	13.9	5.8	4.3	0.7	T	T	0.0	25.0
1945-46	0.0	0.0	0.0	0.0	1.0	11.4	2.5	4.4	2.8	T	0.0	0.0	22.1
1946-47	0.0	0.0	0.0	T	0.0	5.3	8.5	4.3	7.2	T	0.0	0.0	25.3
1947-48	0.0	0.0	0.0	0.0	7.7	1.8	3.8	7.0	8.0	0.0	0.0	0.0	24.3
1948-49	0.0	0.0	0.0	0.0	T	6.2	5.3	2.5	0.9	1.1	0.0	0.0	16.0
1949-50	0.0	0.0	0.0	0.0	0.5	2.3	1.7	7.9	2.5	0.4	0.0	0.0	15.3
1950-51	0.0	0.0	0.0	0.0	2.1	7.3	7.1	4.9	17.0	1.4	0.0	0.0	39.8
1951-52	0.0	0.0	0.0	T	3.4	16.7	4.7	5.9	15.2	T	0.0	0.0	45.9
1952-53	0.0	0.0	0.0	0.0	T	2.5	12.1	6.2	7.1	0.4	0.0	0.0	28.3
1953-54	0.0	0.0	0.0	0.0	1.4	7.8	1.4	4.9	2.2	0.0	T	0.0	17.7
1954-55	0.0	0.0	0.0	T	3.7	16.2	11.2	6.1	8.8	0.0	0.0	0.0	46.0
1955-56	0.0	0.0	0.0	T	2.0	2.9	2.2	7.5	0.7	0.3	0.0	0.0	15.6
1956-57	0.0	0.0	0.0	0.0	2.1	6.5	11.8	7.7	6.9	6.5	0.0	0.0	34.5
1957-58	0.0	0.0	0.0	0.0	0.3	6.4	14.0	1.7	2.0	T	0.0	0.0	24.4
1958-59	0.0	0.0	0.0	0.0	0.9	8.1	15.1	3.6	13.9	1.7	0.0	0.0	43.3
1959-60	0.0	0.0	0.0	T	9.1	9.9	8.5	19.3	14.7	T	T	0.0	61.5
1960-61	0.0	0.0	0.0	0.0	T	5.5	3.4	2.5	2.4	2.5	0.0	0.0	16.3
1961-62	0.0	0.0	0.0	0.0	T	13.6	11.2	15.8	7.1	0.2	0.0	0.0	47.9
1962-63	0.0	0.0	0.0	0.2	T	3.1	14.7	5.9	7.3	0.0	0.0	0.0	31.1
1963-64	0.0	0.0	0.0	0.0	T	9.7	5.3	5.5	13.9	T	0.0	0.0	34.4
1964-65	0.0	0.0	0.0	0.0	2.1	11.7	10.2	7.4	16.2	0.0	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.3	5.7	6.0	0.8	0.7	0.1	T	0.0	13.6
1966-67	0.0	0.0	0.0	0.0	T	7.2	14.4	13.2	2.2	1.1	0.0	0.0	38.1
1967-68	0.0	0.0	0.0	6.6	0.3	3.2	8.6	2.8	1.1	T	0.0	0.0	22.6
1968-69	0.0	0.0	0.0	T	5.9	5.4	6.2	0.9	5.6	0.0	T	0.0	24.0
1969-70	0.0	0.0	0.0	0.0	1.5	15.4	7.2	6.1	12.7	8.3	0.0	0.0	51.2
1970-71	0.0	0.0	0.0	0.0	0.2	2.2	17.7	2.6	7.8	T	0.0	0.0	30.5
1971-72	0.0	0.0	0.0	0.0	5.9	0.3	11.8	13.7	19.8	2.6	0.0	0.0	54.1
1972-73	0.0	0.0	0.0	2.0	6.7	6.6	0.4	8.6	0.5	0.9	0.0	0.0	25.7
1973-74	0.0	0.0	0.0	0.0	T	11.4	12.7	7.4	3.0	0.6	0.0	0.0	35.1
1974-75	0.0	0.0	0.0	0.0	15.6	8.8	7.6	19.3	12.2	6.2	0.0	0.0	69.7
1975-76	0.0	0.0	0.0	0.0	9.9	2.5	8.6	0.1	0.6	0.0	T	0.0	21.7
1976-77	0.0	0.0	0.0	0.0	7.7	4.1	12.3	2.5	10.8	1.0	0.0	0.0	38.4
1977-78	0.0	0.0	0.0	0.0	4.8	20.8	6.1	6.8	6.5	T	0.0	0.0	45.0
1978-79	0.0	0.0	0.0	0.0	7.1	21.7	26.7	4.5	3.4	0.6	0.0	0.0	64.0
1979-80	0.0	0.0	0.0	T	1.9	0.8	4.2	13.1	7.5	9.5	0.0	0.0	37.0
1980-81	0.0	0.0	0.0	2.4	1.1	4.5	5.3	5.6	T	0.0	0.0	0.0	18.9
1981-82	0.0	0.0	0.0	T	3.3	4.3	13.6	4.5	6.6	13.0	0.0	0.0	45.3
1982-63	0.0	0.0	0.0	0.0	T	0.5							
RECORD MEAN	0.0	0.0	T	0.2	2.4	6.8	8.0	5.8	6.4	1.2	T	0.0	30.8

# Indicates a station move or relocation of instruments. See Station Location table.

Record mean values above are means through the current year for the period beginning in 1930 for temperature, 1927 for precipitation, and 1933 for snowfall.

STATION LOCATION

MOLINE, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Sunshine Switch	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Automatic Observing Equipment *	Remarks (* Type: M = AMOS, T = AUTOB)
NE Corner, Moline AP 4.5 miles S of Moline Post Office	10/1/26	12/27/39	NA	41° 27'	90° 31'	589	53	3	3				3			
Administration Building Quad City Airport	12/27/39	4/3/61	1200 feet W	41° 27'	90° 31'	589 h582	62 f25	5 b36 c5 d36	5 a36 c5 d36	Unk		4 e5	15	g4		a - Moved to roof site 12/1/54. b - Moved to roof site 5/31/55. c - Moved to field site 6/7/56. d - Moved to roof site 4/16/58. e - Effective 4/16/58. f - Moved to field site 11/13/58. g - Telepsychrometer (5') 6/7/56-3/1/60. Hygro. comm. 3/1/60. h - Effective 3/1/60.
Terminal Building Quad City Airport	4/4/61	Present	200 feet SE	41° 27'	90° 31'	582	i25	17	17	27	k16	i5 j16	15	i4	NA	i - Not moved 4/4/61. j - Effective 7/22/63. k - Added 6/1/64.

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L. Ray Hoxit
Acting Director
National Climatic Data Center

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Map and Geography

Local Climatological Data

Annual Summary With Comparative Data

1981

MOLINE, ILLINOIS

Narrative Climatological Summary

This area has a temperate continental climate, with a wide temperature range throughout the year. There are some intensely hot, usually humid, periods in summer and severely cold periods in winter. Maxima of 90° or higher have occured as frequently as on 55 days (1936), but in 1882 there were none. Zero or lower readings have occurred during every winter of record ranging from 37 times in 1874-75 to 1 time during 4 winters.

Freezing temperatures have occurred as late in spring as May 20 and as early in autumn as September 20. Precipitation usually is well distributed throughout the year. Normally the greatest amounts fall during the 177-day average crop growing season (April 21-October 14, inclusive). Substantial weather changes frequently occur at 3- or 4-day intervals, as a direct result of proximity to some of the most important storm tracks.

The locality is in the heart of the Corn Belt. Agricultural crops include many important staple products in addition to corn. Cattle, hogs, horses, and poultry produced in Iowa and Illinois rank high in the nation. Close to the Mississippi River there is large scale truck gardening and considerable dairying. Field production of grains and livestock attains greater development farther away from the large streams, where the countryside is rolling prairie. Damaging drouths are not common. This, together with the variety of agricultural products, has led to designating the section as the "Bread Basket" of America.

The climate is favorable for many industries as evidenced by the large number and variety of manufacturing and other enterprises which have located and developed in the community. Among these are some of the world's largest producers of agricultural machinery.

Records began in Davenport, Iowa, in May 1871, and have been continuous to date. At the Quad-City Airport, Moline, Illinois, records began in October 1926, but are not complete in the years 1935, 1936, and 1937. For a summary of data from Lock & Dam No. 15, Davenport, Iowa, please refer to IOWA CLIMATOLOGICAL DATA.

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Meteorological Data For The Current Year

Station: MOLINE, ILLINOIS # 14923 — QUAD CITY AIRPORT — Standard time used: CENTRAL — Latitude: 41° 27′ N — Longitude: 90° 31′ W — Elevation (ground): 582 feet — Year: 1981

Month	Temperature °F: Averages: Daily maximum	Daily minimum	Monthly	Extremes: Highest	Date	Lowest	Date	Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Total	Greatest in 24 hrs.	Date	Snow, Ice pellets: Total	Greatest in 24 hrs.	Date	Relative humidity, pct. (Local time): Hour 00	Hour 06	Hour 12	Hour 18
JAN	33.5	13.3	23.4	62	25	-4	11	1281	0	0.32	0.16	31	5.3	1.9	31	62	67	50	51
FEB	37.4	16.8	27.1	62	17	-12	11	1055	0	2.45	1.50	21-22	5.6	4.2	9-10	71	73	60	64
MAR	51.5	27.3	39.4	81	31	13	3	783	0	0.69	0.42	29	T	T	3	70	77	45	46
APR	66.3	42.3	54.3	86	27	21	6	322	8	4.48	1.62	11-12	0.0	0.0		70	75	58	57
MAY	68.9	46.1	57.5	87	29	32	7	253	27	1.48	0.52	13-14	0.0	0.0		72	77	53	52
JUN	82.0	59.9	71.0	89	29	50	17	3	191	5.51	1.67	29-30	0.0	0.0		78	84	57	58
JUL	82.8	63.8	73.3	96	12	49	29	12	275	3.07	1.17	25-26	0.0	0.0		87	90	65	67
AUG	81.3	61.0	71.2	88	4	47	20	9	209	6.90	1.61	31	0.0	0.0		89	92	65	69
SEP	75.1	51.8	63.5	88	10	36	28	91	50	4.20	2.19	25-26	0.0	0.0		84	88	58	65
OCT	60.6	39.2	49.9	72	30	23	24	459	0	4.42	1.90	13-14	T	T	24	79	82	61	64
NOV	50.5	31.7	41.1	68	3	14	22	710	0	2.42	0.55	30	3.3	3.3	19-20	78	82	67	73
DEC	32.9	17.6	25.3	53	7	-4	29	1226	0	0.72	0.20	31	4.3	1.5	27-28	75	76	66	69
YEAR	60.2	39.2	49.7	96	JUL 12	-12	FEB 11	6204	760	36.66	2.19	SEP 25-26	18.5	4.2	FEB 9-10	76	80	59	61

Month	Wind: Resultant: Direction	Speed m.p.h.	Average speed m.p.h.	Fastest mile: Speed m.p.h.	Direction	Date	Percent of possible sunshine	Average sky cover, tenths, sunrise to sunset	Number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperature °F: Maximum (b): 90° and above	32° and below	Minimum: 32° and below	0° and below	Average station pressure mb Elev. 594 feet m.s.l.
JAN	28	5.2	10.4	32	NW	6	62	5.4	13	6	12	8	2	0	1	0	16	29	6	999.0
FEB	24	5.4	13.1	27	NW	2	60	6.1	6	11	11	10	1	0	1	0	11	21	6	995.6
MAR	29	3.3	11.0	34	SW	31	72	5.0	10	12	9	4	0	1	0	0	0	24	0	993.9
APR	21	3.0	13.3	56	SW	4	52	6.6	6	10	14	11	0	8	0	0	0	4	0	993.2
MAY	09	2.9	11.2	35	SW	23	47	6.5	6	9	16	11	0	3	0	0	0	2	0	993.2
JUN	21	4.1	10.3	35	NW	24	56	6.3	6	12	12	11	0	10	1	0	0	0	0	991.2
JUL	12	2.9	8.4	26	NW	15	49	6.2	7	12	12	12	0	5	1	1	0	0	0	994.9
AUG	18	2.0	7.7	29	NE	14	63	6.0	7	12	12	9	0	8	2	0	0	0	0	994.2
SEP	26	1.2	9.3	34	W	27	70	4.7	12	10	8	6	0	4	0	0	0	0	0	995.3
OCT	23	1.6	10.7	34	NW	18	48	6.3	8	8	15	12	0	3	1	0	0	7	0	997.3
NOV	34	0.7	10.6	31	W	26	44	5.9	9	7	14	10	1	1	3	0	2	20	0	995.9
DEC	27	4.4	10.4	30	NW	7	39	6.7	7	7	17	9	2	0	1	0	10	30	3	995.9
YEAR	24	1.8	10.5	56	SW	APR 4	55	6.0	97	116	152	113	6	43	11	1	39	137	15	995.0

Normals, Means, And Extremes

Month	Temperatures °F: Normal: Daily maximum	Daily minimum	Monthly	Extremes: Record highest	Year	Record lowest	Year	Normal Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Normal	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year	Snow, Ice pellets: Maximum monthly	Year	Maximum in 24 hrs.	Year
(a)				49		49					52		52		52		50		48	
J	30.0	13.0	21.5	65	1950	-27	1979	1349	0	1.66	4.39	1974	0.31	1961	2.07	1960	26.7	1979	16.4	1971
F	34.3	17.0	25.7	71	1976	-25	1979	1100	0	1.29	2.78	1960	0.17	1933	1.90	1948	19.3	1975	10.1	1975
M	45.0	26.4	35.7	83	1945	-19	1960	908	0	2.57	7.43	1973	0.31	1958	2.38	1944	19.8	1972	11.0	1972
A	61.3	39.8	50.6	92	1980	9	1975	436	0	3.82	11.30	1973	0.68	1946	5.81	1973	9.5	1980	8.2	1970
M	72.0	50.2	61.1	104	1934	26	1966	184	63	3.92	11.43	1974	0.55	1928	3.68	1970	0.3	1935	0.3	1935
J	81.4	60.2	70.8	104	1934	39	1972	20	194	4.42	8.83	1974	1.02	1963	5.02	1967	0.0		0.0	
J	85.2	63.8	74.5	105	1940	46	1971	0	298	4.58	11.39	1969	1.02	1955	5.41	1963	0.0		0.0	
A	83.8	62.0	72.9	106	1936	40	1934	11	255	3.37	9.31	1965	0.35	1971	4.60	1951	0.0		0.0	
S	76.0	53.2	64.6	100	1939	24	1942	79	67	3.84	14.18	1970	0.02	1979	6.29	1961	0.1	1942	0.1	1942
O	66.0	42.8	54.4	92	1963	16	1952	344	16	2.69	9.41	1941	0.01	1964	4.89	1954	6.6	1967	6.5	1967
N	48.1	30.2	39.2	80	1933	-9	1976	774	0	1.87	6.47	1934	0.29	1933	2.73	1961	15.6	1974	8.5	1975
D	34.6	18.5	26.6	69	1970	-22	1963	1190	0	1.77	4.81	1942	0.23	1929	3.38	1942	21.7	1978	9.0	1978
YR	59.8	39.8	49.8	106	AUG 1936	-27	JAN 1979	6395	893	35.80	14.18	SEP 1970	0.01	OCT 1964	6.29	SEP 1961	26.7	JAN 1979	16.4	JAN 1971

Month	Relative humidity pct. (Local time): Hour 00	Hour 06	Hour 12	Hour 18	Wind: Mean speed m.p.h.	Prevailing direction	Fastest mile: Speed m.p.h.	Direction	Year	Pct. of possible sunshine	Mean sky cover, tenths, sunrise to sunset	Mean number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperatures °F: Max. (b): 90° and above	32° and below	Min.: 32° and below	0° and below	Average station pressure mb. Elev. 594 feet m.s.l.
(a)	21	21	21	21	38	12	52	52		38	39	48	48	48	49	49	48	47	21	21	21	21	9
J	71	72	64	68	10.8	WNW	56	SW	1946	48	6.5	8	7	16	9	3	*	2	0	19	29	10	997.7
F	72	74	63	66	11.1	WNW	58	NW	1948	50	6.4	7	6	15	8	2	1	2	0	13	26	4	997.0
M	74	77	60	62	12.1	WNW	66	SW	1954	50	6.8	7	8	16	11	2	2	2	0	4	21	*	993.3
A	73	78	55	55	12.2	NW	73	SW	1947	53	6.6	6	9	15	11	*	5	1	*	*	7	0	993.5
M	75	80	53	53	10.3	E	68	SW	1955	57	6.3	7	10	14	12	0	7	1	1	0	1	0	992.1
J	77	81	53	54	9.2	S	77	SW	1947	63	6.0	7	11	12	10	0	8	1	5	0	0	0	992.5
J	81	84	57	59	7.6	E	65	W	1953	69	5.4	10	12	9	9	0	8	1	8	0	0	0	994.1
A	84	88	58	62	7.3	E	63	SW	1978	67	5.3	10	11	10	9	0	7	2	5	0	0	0	994.9
S	82	87	57	66	8.1	S	66	NW	1945	64	5.1	12	8	10	9	0	4	2	2	0	*	0	995.7
O	76	81	54	63	9.3	S	56	SW	1949	60	5.2	12	8	11	7	*	2	2	*	0	6	0	996.1
N	75	79	62	69	10.8	WNW	60	W	1952	44	6.6	8	7	15	8	1	1	1	0	2	18	*	996.2
D	76	77	69	73	10.6	WNW	61	SW	1947	41	6.8	7	6	18	9	2	1	2	0	13	27	4	996.4
YR	76	80	59	62	10.0	WNW	77	SW	JUN 1947	57	6.1	101	103	161	113	10	48	18	21	52	136	18	995.0

(a) Length of record, years, through the current year unless otherwise noted, based on January data.
(b) 70° and above at Alaskan stations.
* Less than one half.
T Trace.

NORMALS - Based on record for the 1941-1970 period.
DATE OF AN EXTREME - The most recent in cases of multiple occurrence.
PREVAILING WIND DIRECTION - Record through 1963.
WIND DIRECTION - Numerals indicate tens of degrees clockwise from true north. 00 indicates calm.
FASTEST MILE WIND - Speed is fastest observed 1-minute value when the direction is in tens of degrees.

Average Temperature

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1942	22.5	24.6	39.5	55.3	60.8	71.0	75.0	71.7	63.0	53.2	39.7	21.0	49.8
1943	19.6	27.3	32.3	48.2	57.8	73.2	75.9	74.8	61.2	52.2	35.0	26.9	48.7
1944	30.1	27.4	32.6	46.4	66.2	73.6	73.8	73.4	66.2	53.4	42.5	20.2	50.5
1945	18.2	27.7	48.8	51.6	55.6	66.5	72.2	73.2	63.9	51.0	38.6	19.7	48.9
1946	25.6	29.5	48.0	53.5	57.8	70.2	74.8	69.2	64.8	57.8	40.8	31.4	52.0
1947	27.0	20.1	32.5	48.8	56.5	67.4	72.2	81.0	68.2	62.6	33.8	30.2	50.0
1948	17.5	24.4	35.6	55.2	57.8	69.0	75.1	73.6	67.6	51.1	41.3	29.0	49.8
1949	23.0	24.8	37.1	49.4	63.8	73.6	78.0	73.5	59.0	57.0	41.8	31.0	51.0
1950	25.9	24.7	32.9	43.6	62.0	69.6	71.1	68.5	64.1	59.2	33.8	19.1	47.9
1951	20.6	25.6	31.8	47.3	63.3	67.2	72.9	71.5	61.8	54.6	32.6	23.4	47.7
1952	25.1	31.4	33.5	52.1	60.6	75.7	76.4	71.1	64.7	46.6	41.4	30.5	50.7
1953	25.3	30.0	37.3	45.9	60.5	74.3	75.9	74.3	65.4	57.9	42.8	30.0	51.6
1954	23.3	36.3	34.0	53.7	56.1	74.6	76.2	72.0	67.5	53.1	40.7	29.1	51.4
1955	22.0	25.3	36.0	57.0	63.8	67.8	80.5	76.8	66.4	53.6	34.2	24.2	50.6
1956	22.7	26.9	36.1	47.1	62.6	74.0	73.2	73.3	63.4	59.0	38.4	28.9	50.5
1957	16.6	32.5	37.0	50.4	59.6	70.4	76.7	73.2	61.9	49.8	38.1	32.8	49.9
1958	22.2	16.7	35.7	50.5	62.2	66.3	71.3	73.5	64.4	56.0	42.0	22.2	48.6
1959	15.7	25.7	36.9	49.4	65.3	72.0	73.2	77.2	66.3	49.9	31.4	34.7	49.8
#1960	25.7	22.3	19.9	53.4	58.9	68.5	72.8	73.8	68.6	53.8	41.5	23.7	48.6
1961	21.1	30.7	39.3	44.3	58.1	71.9	74.2	73.9	66.1	55.4	40.8	23.0	49.9
1962	16.2	23.7	32.6	49.3	67.9	70.6	71.6	72.9	61.7	55.2	39.0	23.2	48.7
1963	9.7	17.9	41.1	52.9	60.0	73.5	74.8	70.8	64.9	64.4	43.1	13.8	48.9
1964	28.4	27.0	34.4	51.5	66.3	72.3	76.6	70.8	65.6	50.7	44.2	24.8	51.1
1965	21.4	25.7	26.9	49.2	65.9	69.6	74.9	71.1	63.5	53.6	40.7	34.5	49.8
1966	14.3	24.8	39.2	47.0	56.3	70.5	77.9	70.6	62.9	52.5	41.7	28.1	48.8
1967	26.0	18.7	39.0	51.6	56.4	70.9	71.4	67.7	62.1	52.1	36.1	28.5	48.4
1968	21.0	22.7	41.9	51.3	57.2	72.1	73.1	73.5	63.1	53.2	37.3	24.5	49.3
1969	17.9	27.9	32.2	51.6	61.7	67.1	75.0	73.7	64.9	51.7	37.9	24.3	48.8
1970	13.1	24.7	33.6	51.8	64.9	70.7	75.7	72.9	65.2	53.9	39.2	28.9	49.5
1971	14.8	25.9	34.7	50.9	58.0	76.6	70.7	71.9	68.7	59.9	40.0	31.6	50.3
1972	18.6	20.7	36.0	48.0	63.0	69.4	74.6	74.0	66.7	50.2	37.3	22.3	48.4
1973	27.1	28.7	45.4	49.7	57.6	72.3	74.9	75.1	65.7	57.3	40.4	23.7	51.5
1974	21.6	26.8	38.5	53.3	58.8	67.5	77.3	70.3	60.4	53.7	40.1	28.6	49.8
1975	24.9	25.0	30.6	45.1	63.8	72.3	75.0	75.1	60.9	56.2	45.0	30.3	50.4
1976	19.1	35.2	41.2	52.9	57.5	70.5	75.8	71.8	63.0	46.8	30.1	19.6	48.6
1977	8.2	27.1	43.6	56.6	68.9	70.0	77.5	71.0	65.5	51.2	38.7	21.7	50.0
1978	12.4	14.1	33.0	50.8	60.2	71.0	74.0	73.2	69.2	51.5	39.2	22.7	47.6
1979	6.3	13.2	36.3	47.4	61.9	71.2	73.5	72.0	64.3	52.1	37.0	31.7	47.2
1980	23.4	19.2	33.5	49.1	62.7	69.2	77.6	75.8	65.7	48.6	39.7	26.6	49.3
1981	23.4	27.1	39.4	54.3	57.5	71.0	73.3	71.2	63.5	49.9	41.1	25.3	49.7
RECORD MEAN	21.3	25.9	36.2	50.3	61.1	71.2	75.1	73.1	65.0	53.8	39.0	26.7	49.9
MAX	29.9	34.6	45.4	61.1	72.2	82.2	86.1	84.1	76.6	65.3	48.1	34.6	60.0
MIN	12.7	17.2	26.9	39.5	50.0	60.2	64.1	62.1	53.4	42.3	29.9	18.7	39.8

Heating Degree Days

MOLINE, IL

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1961-62	1	0	121	309	722	1297	1510	1150	999	481	78	22	6690
1962-63	8	1	149	342	774	1292	1717	1315	734	370	186	15	6903
1963-64	0	16	83	108	653	1585	1129	1097	942	405	71	20	6109
1964-65	3	24	100	437	624	1241	1344	1096	1174	471	86	3	6603
1965-66	0	21	115	363	722	939	1568	1119	794	533	287	31	6492
1966-67	0	6	116	386	695	1137	1202	1289	802	404	305	10	6352
1967-68	21	33	136	424	860	1127	1354	1221	711	409	248	18	6562
1968-69	8	15	96	404	826	1247	1458	1032	1010	398	172	57	6723
1969-70	0	0	80	445	805	1253	1607	1120	967	419	118	21	6835
1970-71	0	2	92	350	764	1111	1556	1088	931	425	242	0	6561
1971-72	17	3	94	195	740	1026	1434	1280	893	504	155	25	6366
1972-73	8	7	80	459	824	1319	1170	1013	598	452	223	1	6154
1973-74	0	0	78	258	733	1274	1338	1061	812	360	235	32	6181
1974-75	0	8	180	349	739	1122	1235	1114	1058	593	117	14	6529
1975-76	9	0	162	297	594	1072	1413	855	731	385	235	2	5755
1976-77	0	5	123	569	1038	1403	1755	1059	656	286	54	15	6963
1977-78	0	5	50	420	780	1337	1625	1417	986	423	229	13	7285
1978-79	1	4	59	415	767	1305	1820	1445	884	521	172	12	7405
1979-80	5	22	95	415	831	1027	1280	1324	966	481	129	27	6602
1980-81	0	1	77	503	755	1180	1281	1055	783	322	253	3	6213
1981-82	12	9	91	459	710	1226							

Cooling Degree Days

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
1969	0	0	0	1	77	130	320	276	86	41	0	0	931
1970	0	0	0	32	119	198	341	256	105	15	0	0	1066
1971	0	0	0	9	32	355	203	225	212	44	0	0	1080
1972	0	0	0	3	102	165	312	294	138	6	0	0	1020
1973	0	0	0	2	2	226	312	323	103	27	0	0	995
1974	0	0	0	17	50	113	389	180	45	3	0	0	797
1975	0	0	0	1	85	241	325	319	44	29	0	0	1044
1976	0	0	0	26	12	175	341	221	72	13	0	0	860
1977	0	0	0	44	182	173	397	199	73	0	0	0	1068
1978	0	0	1	0	87	202	288	267	195	5	0	0	1045
1979	0	0	0	0	83	206	272	245	79	22	0	0	907
1980	0	0	0	11	65	158	395	343	107	1	0	0	1080
1981	0	0	0	8	27	191	275	209	50	0	0	0	760

Precipitation

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1942	0.78	1.08	1.39	0.92	4.06	5.73	4.18	2.80	2.95	0.92	2.99	4.81	32.61
1943	1.36	1.84	1.49	5.61	6.38	4.55	2.10	4.31	1.23	3.24	1.77	0.41	34.29
1944	0.60	1.99	5.27	5.55	4.60	6.19	2.40	2.88	1.60	1.06	2.98	1.54	36.66
1945	0.44	0.90	3.36	3.88	5.07	2.52	1.39	3.86	4.74	1.09	1.71	1.69	30.65
1946	2.53	0.28	4.64	0.68	4.10	6.42	1.47	3.91	3.47	1.65	2.49	1.43	33.07
1947	2.08	0.23	2.10	7.36	3.70	5.99	4.08	0.52	5.13	0.88	1.92	1.64	35.63
1948	0.84	2.35	3.46	1.67	2.11	2.91	8.27	2.83	3.66	1.81	2.23	2.21	34.35
1949	3.28	1.78	2.76	1.10	1.82	5.45	3.40	7.12	1.96	2.27	0.71	2.91	34.56
1950	3.56	1.76	1.09	5.87	3.01	5.11	4.41	1.87	3.85	0.61	0.73	1.01	32.88
1951	1.05	2.56	5.06	3.60	5.90	6.65	5.60	8.00	3.47	3.75	1.68	1.28	48.60
1952	1.57	0.78	3.88	1.17	2.22	7.13	2.66	3.50	0.77	0.04	2.99	1.93	28.64
1953	1.04	2.72	2.68	1.73	3.18	3.43	4.88	1.05	1.79	1.00	1.07	1.90	26.47
1954	0.34	1.69	3.13	4.58	3.58	5.10	1.98	6.67	1.59	7.43	0.75	2.02	38.86
1955	2.03	1.88	1.20	5.33	2.30	3.65	1.02	2.44	2.40	2.70	0.60	0.54	26.09
1956	0.31	1.39	0.54	2.15	2.27	1.55	4.09	3.34	0.49	0.40	2.43	1.24	20.20
1957	1.33	1.57	2.90	3.49	4.11	2.52	4.47	3.17	1.16	2.00	2.38	3.82	32.92
1958	1.26	0.49	0.31	2.53	3.96	3.77	4.62	1.09	3.00	1.75	1.17	0.50	24.45
1959	1.41	1.77	3.06	4.75	5.31	3.62	4.48	3.90	4.29	5.59	1.50	2.42	42.10
1960	3.43	2.78	1.28	4.89	3.98	5.40	3.40	3.97	3.42	4.91	1.11	0.88	39.45
1961	0.31	1.20	4.48	2.19	1.98	3.69	7.63	2.37	11.00	4.53	4.94	1.58	45.90
1962	2.08	1.84	2.42	2.44	6.10	1.48	6.73	1.95	2.90	4.15	1.21	0.55	33.85
1963	0.91	0.37	3.29	4.24	2.36	1.02	8.78	4.02	2.38	0.63	1.84	0.94	30.78
1964	1.59	0.73	4.02	6.37	2.68	3.89	5.31	2.41	3.99	0.01	3.40	1.27	35.67
1965	4.08	0.97	2.52	7.92	4.04	2.07	4.78	9.31	8.27	0.88	1.93	2.82	49.59
1966	2.01	0.89	0.85	3.96	6.39	4.25	7.74	0.77	2.80	4.38	1.12	2.52	37.68
1967	2.00	1.11	1.68	4.91	1.70	8.15	4.15	3.62	4.99	6.23	2.26	1.56	42.36
1968	0.80	0.32	1.96	3.57	2.59	3.70	3.91	2.16	5.70	1.09	3.29	2.76	31.85
1969	3.28	0.21	2.25	3.11	3.40	6.97	11.39	2.00	2.50	4.63	0.53	1.52	41.79
1970	0.54	0.57	2.62	4.66	11.07	3.25	6.27	3.61	14.18	1.75	1.25	1.95	51.72
1971	1.79	1.57	1.99	1.86	3.14	2.36	11.22	0.35	4.54	2.64	2.21	4.77	38.44
1972	1.19	1.24	3.73	5.19	4.24	8.66	3.79	8.20	3.29	2.39	2.75	1.98	46.65
1973	2.53	1.94	7.43	11.30	6.96	6.58	2.63	2.30	6.74	3.06	1.15	3.74	56.36
1974	4.39	1.57	2.94	5.08	11.43	8.83	1.73	3.37	1.08	1.99	2.59	1.83	46.83
1975	1.50	1.75	3.30	2.88	3.23	3.50	2.71	3.23	1.99	0.90	2.98	0.98	28.95
1976	0.88	1.11	3.67	4.21	4.13	2.02	3.34	0.60	1.89	2.13	0.65	0.34	24.97
1977	0.87	0.62	4.61	1.57	2.66	5.18	6.04	6.98	4.80	4.09	2.78	1.76	41.96
1978	0.59	0.67	0.78	3.02	4.65	3.50	3.24	2.47	3.91	1.95	3.32	3.17	31.27
1979	2.72	1.02	2.77	4.01	2.86	2.85	4.40	6.94	0.02	2.51	2.13	2.27	34.50
1980	1.31	1.55	1.74	2.34	4.01	4.97	3.46	9.09	2.94	1.63	0.70	2.75	36.49
1981	0.32	2.45	0.69	4.48	1.48	5.51	3.07	6.90	4.20	4.42	2.42	0.72	36.66
RECORD MEAN	1.60	1.28	2.56	3.71	3.97	4.43	4.19	3.68	3.74	2.64	2.06	1.71	35.57

Snowfall

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1942-43	0.0	0.0	0.1	T	1.6	7.6	11.1	2.5	5.3	T	0.0	0.0	28.2
1943-44	0.0	0.0	0.0	0.0	T	0.4	T	12.6	4.3	T	T	0.0	17.3
1944-45	0.0	0.0	0.0	0.0	0.3	13.9	5.8	4.3	0.7	T	T	0.0	25.0
1945-46	0.0	0.0	0.0	0.0	1.0	11.4	2.5	4.4	2.8	T	0.0	0.0	22.1
1946-47	0.0	0.0	0.0	T	0.0	5.3	8.5	4.3	7.2	T	0.0	0.0	25.3
1947-48	0.0	0.0	0.0	0.0	7.7	1.8	3.8	3.0	8.0	0.0	0.0	0.0	24.3
1948-49	0.0	0.0	0.0	0.0	T	6.2	5.3	2.5	0.9	1.1	0.0	0.0	16.0
1949-50	0.0	0.0	0.0	0.0	0.5	2.3	1.7	7.9	2.5	0.4	0.0	0.0	15.3
1950-51	0.0	0.0	0.0	0.0	2.1	7.3	7.1	4.9	17.0	1.4	0.0	0.0	39.8
1951-52	0.0	0.0	0.0	T	3.4	16.7	4.7	5.9	15.2	T	0.0	0.0	45.9
1952-53	0.0	0.0	0.0	0.0	T	2.5	12.1	6.2	7.1	0.4	0.0	0.0	28.3
1953-54	0.0	0.0	0.0	0.0	1.4	7.8	1.4	4.9	2.2	0.0	T	0.0	17.7
1954-55	0.0	0.0	0.0	T	3.7	16.2	11.2	6.1	8.8	0.0	0.0	0.0	46.0
1955-56	0.0	0.0	0.0	T	2.0	2.9	2.2	7.5	0.7	0.3	0.0	0.0	15.6
1956-57	0.0	0.0	0.0	0.0	2.1	6.5	11.8	0.7	6.9	6.5	0.0	0.0	34.5
1957-58	0.0	0.0	0.0	0.0	0.3	6.4	14.0	1.7	2.0	T	0.0	0.0	24.4
1958-59	0.0	0.0	0.0	0.0	0.9	8.1	15.1	3.6	13.9	1.7	0.0	0.0	43.3
1959-60	0.0	0.0	0.0	T	9.1	9.9	8.5	19.3	14.7	T	T	0.0	61.5
1960-61	0.0	0.0	0.0	0.0	T	5.5	3.4	2.5	2.4	2.5	0.0	0.0	16.3
1961-62	0.0	0.0	0.0	0.0	T	13.6	11.2	15.8	7.1	0.2	0.0	0.0	47.9
1962-63	0.0	0.0	0.0	0.2	T	3.1	14.7	5.8	7.3	0.0	0.0	0.0	31.1
1963-64	0.0	0.0	0.0	0.0	T	9.7	5.3	5.5	13.9	T	0.0	0.0	34.4
1964-65	0.0	0.0	0.0	0.0	2.1	11.7	10.2	7.4	16.2	0.0	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.3	5.7	6.0	0.8	0.7	0.1	T	0.0	13.6
1966-67	0.0	0.0	0.0	0.0	T	7.2	14.4	13.2	2.2	1.1	0.0	0.0	38.1
1967-68	0.0	0.0	0.0	6.6	0.3	3.2	8.6	2.8	1.1	T	0.0	0.0	22.6
1968-69	0.0	0.0	0.0	T	5.9	5.4	6.2	0.9	5.6	0.0	T	0.0	24.0
1969-70	0.0	0.0	0.0	0.0	1.5	15.4	7.2	6.1	12.7	8.3	0.0	0.0	51.2
1970-71	0.0	0.0	0.0	0.0	0.2	2.2	17.7	2.6	7.8	T	0.0	0.0	30.5
1971-72	0.0	0.0	0.0	0.0	5.9	0.3	11.8	13.7	19.8	2.6	0.0	0.0	54.1
1972-73	0.0	0.0	0.0	2.0	6.7	6.6	0.4	8.6	0.5	0.9	0.0	0.0	25.7
1973-74	0.0	0.0	0.0	0.0	T	11.4	12.7	7.4	3.0	0.6	0.0	0.0	35.1
1974-75	0.0	0.0	0.0	0.0	15.6	8.8	7.6	19.3	12.2	6.2	0.0	0.0	69.7
1975-76	0.0	0.0	0.0	0.0	9.9	2.5	8.6	0.1	0.6	0.0	T	0.0	21.7
1976-77	0.0	0.0	0.0	0.0	7.7	4.1	12.3	2.5	10.8	1.0	0.0	0.0	38.4
1977-78	0.0	0.0	0.0	0.0	4.8	20.8	6.1	6.8	6.5	T	0.0	0.0	45.0
1978-79	0.0	0.0	0.0	0.0	7.1	21.7	26.7	4.5	3.4	0.6	0.0	0.0	64.0
1979-80	0.0	0.0	0.0	T	1.9	0.8	4.2	13.1	7.5	9.5	0.0	0.0	37.0
1980-81	0.0	0.0	0.0	2.4	1.1	4.5	5.3	5.6	T	0.0	0.0	0.0	18.9
1981-82	0.0	0.0	0.0	T	3.3	4.3							
RECORD MEAN	0.0	0.0	T	0.2	2.4	6.9	7.9	5.8	6.4	1.0	T	0.0	30.6

# Indicates a station move or relocation of instruments. See Station Location table.

Record mean values above are means through the current year for the period beginning in 1930 for temperature, 1927 for precipitation, and 1933 for snowfall.

STATION LOCATION

MOLINE, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Sunshine Switch	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Automatic Observing Equipment *	Remarks
NE Corner, Moline AP 4.5 miles S of Moline Post Office	10/1/26	12/27/39	NA	41° 27'	90° 31'	589	53	3	3				3			
Administration Building Quad City Airport	12/27/39	4/3/61	1200 feet W	41° 27'	90° 31'	589 h582	62 f25	5 b36 c5 d36	5 a36 c5 d36	Unk		4 e5	15	g4		a - Moved to roof site 12/1/54. b - Moved to roof site 5/31/55. c - Moved to field site 6/7/56. d - Moved to roof site 4/16/58. e - Effective 4/16/58. f - Moved to field site 11/13/58. g - Telepsychrometer (5') 6/7/56-3/1/60. Hygro. comm. 3/1/60. h - Effective 3/1/60.
Terminal Building Quad City Airport	4/4/61	Present	200 feet SE	41° 27'	90° 31'	582	i25	17	17	27	k16	i5 j16	15	i4	NA	i - Not moved 4/4/61. j - Effective 7/22/63. k - Added 6/1/64.

* Type
M = AMOS
T = AUTOB

SUBSCRIPTION: Price and ordering information available through: National Climatic Center, Federal Building, Asheville, N. C. 28801, ATTN: Publications.

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Daniel B. Mitchell
Director, National Climatic Center

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I Summary With Comparative Data

1980

MOLINE, ILLINOIS

Narrative Climatological Summary

This area has a temperate continental climate, with a wide temperature range throughout the year. There are some intensely hot, usually humid, periods in summer and severely cold periods in winter. Maxima of 90° or higher have occured as frequently as on 55 days (1936), but in 1882 there were none. Zero or lower readings have occurred during every winter of record ranging from 37 times in 1874-75 to 1 time during 4 winters.

Freezing temperatures have occurred as late in spring as May 20 and as early in autumn as September 20. Precipitation usually is well distributed throughout the year. Normally the greatest amounts fall during the 177-day average crop growing season (April 21-October 14, inclusive). Substantial weather changes frequently occur at 3- or 4-day intervals, as a direct result of proximity to some of the most important storm tracks.

The locality is in the heart of the Corn Belt. Agricultural crops include many important staple products in addition to corn. Cattle, hogs, horses, and poultry produced in Iowa and Illinois rank high in the nation. Close to the Mississippi River there is large scale truck gardening and considerable dairying. Field production of grains and livestock attains greater development farther away from the large streams, where the countryside is rolling prairie. Damaging drouths are not common. This, together with the variety of agricultural products, has led to designating the section as the "Bread Basket" of America.

The climate is favorable for many industries as evidenced by the large number and variety of manufacturing and other enterprises which have located and developed in the community. Among these are some of the world's largest producers of agricultural machinery.

Records began in Davenport, Iowa, in May 1871, and have been continuous to date. At the Quad-City Airport, Moline, Illinois, records began in October 1926, but are not complete in the years 1935, 1936, and 1937. For a summary of data from Lock & Dam No. 15, Davenport, Iowa, please refer to IOWA CLIMATOLOGICAL DATA.

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Meteorological Data For The Current Year

Station: MOLINE, ILLINOIS # 14923 — QUAD CITY AIRPORT — Standard time used: CENTRAL — Latitude: 41° 27′ N — Longitude: 90° 31′ W — Elevation (ground): 582 feet — Year: 1980

Month	Temperature °F: Averages: Daily maximum	Daily minimum	Monthly	Extremes: Highest	Date	Lowest	Date	Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Total	Greatest in 24 hrs.	Date	Snow, Ice pellets: Total	Greatest in 24 hrs.	Date	Relative humidity, pct. (Local time): Hour 00	Hour 06	Hour 12	Hour 18	Wind: Resultant: Direction	Speed m.p.h.	Average speed m.p.h.	Fastest mile: Speed m.p.h.	Direction	Date	Percent of possible sunshine	Average sky cover, tenths, sunrise to sunset	Number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperature °F: Maximum: (b) 90° and above	32° and below	Minimum: 32° and below	0° and below	Average station pressure mb. Elev. 594 feet m.s.l.
JAN	30.7	16.0	23.4	54	16	-3	31	1280	0	1.31	0.73	15-16	4.2	1.5	30	75	77	67	71	28	4.4	11.9	36	28	11	34	7.1	7	7	17	14	1	0	1	0	17	30	1	997.6
FEB	27.3	11.0	19.2	40	20	-10	17	1324	0	1.55	0.42	4-5	13.1	5.1	4-5	81	81	69	73	32	1.8	10.9	28	33	25	40	6.6	7	7	15	13	3	1	2	0	22	26	7	999.3
MAR	42.5	24.5	33.5	59	18	-2	2	966	0	1.74	0.46	30	7.5	3.2	7-8	75	78	60	63	05	1.5	13.0	34	NW	10	43	7.3	4	10	17	11	4	1	0	0	6	22	1	994.6
APR	60.1	38.0	49.1	92	22	27	16	481	11	2.34	0.55	11	9.5	7.1	14-15	72	77	53	52	31	2.7	12.2	32	SW	22	47	6.7	6	9	15	10	2	1	0	1	0	11	0	991.9
MAY	75.4	50.0	62.7	88	27	31	9	129	65	4.01	1.69	16-17	0.0	0.0		70	78	47	47	12	0.6	8.4	36	SW	5	55	5.5	9	13	9	14	0	6	2	0	0	1	0	991.9
JUN	80.8	57.5	69.2	94	27	44	11	27	158	4.97	1.54	13-14	0.0	0.0		77	80	54	53	17	1.4	8.7	34	N	27	63	5.4	10	12	8	11	0	10	0	2	0	0	0	993.2
JUL	88.3	66.9	77.6	97	15	58	3	0	395	3.46	0.92	25-26	0.0	0.0		78	79	58	60	19	1.9	8.4	52	W	5	74	5.1	8	17	6	9	0	10	1	14	0	0	0	992.2
AUG	85.8	65.7	75.8	93	20	55	23	1	343	9.09	3.25	16-17	0.0	0.0		83	88	65	69	16	3.5	8.0	34	NW	9	57	5.1	11	12	8	16	0	16	0	9	0	0	0	992.9
SEP	77.3	54.1	65.7	93	8	37	26	77	107	2.94	1.02	31-1	0.0	0.0		81	87	59	66	21	2.6	8.4	26	NW	25	65	4.6	13	8	9	7	0	8	1	1	0	0	0	995.3
OCT	60.4	36.8	48.6	84	8	22	29	503	1	1.63	0.59	27-28	2.4	2.4	27-28	71	76	50	58	27	3.5	10.5	30	NW	11	59	4.9	14	5	12	5	1	2	0	0	0	0	10	0	994.9
NOV	49.5	29.8	39.7	72	6	15	26	755	0	0.70	0.38	23	1.1	1.0	27	65	70	54	60	26	3.9	11.3	34	NW	28	60	5.2	13	8	9	7	1	0	0	0	0	18	0	997.3
DEC	34.4	18.8	26.6	59	6	-12	25	1180	0	2.75	1.56	7-8	4.5	2.5	23-24	71	70	60	64	30	2.2	10.2	29	NW	19	38	7.6	4	5	22	8	2	1	0	0	10	28	2	1000.7
YEAR	59.4	39.1	49.3	97	JUL 15	-12	DEC 25	6723	1080	36.49	3.25	AUG 16-17	42.3	7.1	APR 14-15	75	78	58	61	26	1.3	10.2	52	W	JUL 5	54	5.9	106	113	147	125	14	56	7	27	55	146	11	995.2

Normals, Means, And Extremes

Month	Temperatures °F: Normal: Daily maximum	Daily minimum	Monthly	Extremes: Record highest	Year	Record lowest	Year	Normal Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Normal	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year	Snow, Ice pellets: Maximum monthly	Year	Maximum in 24 hrs.	Year	Relative humidity pct. (Local time): Hour 00	Hour 06	Hour 12	Hour 18	Wind: Mean speed m.p.h.	Prevailing direction	Fastest mile: Speed m.p.h.	Direction	Year	Pct. of possible sunshine	Mean sky cover, tenths, sunrise to sunset	Mean number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperatures °F: Max.: (b) 90° and above	32° and below	Min.: 32° and below	0° and below	Average station pressure mb. Elev. 594 feet m.s.l.
(a)				48		48					51		51		51		49		47		20	20	20	20	37	12	51	51		37	38	47	47	47	48	48	47	46	20	20	20	20	8
J	30.0	13.0	21.5	65	1950	-27	1979	1349	0	1.66	4.39	1974	0.31	1961	2.07	1960	26.7	1979	16.4	1971	72	73	65	69	10.8	WNW	56	SW	1946	48	6.6	8	7	16	9	3	*	2	0	20	30	10	997.6
F	34.3	17.0	25.7	71	1976	-25	1979	1100	0	1.29	2.78	1960	0.17	1933	1.90	1948	19.3	1975	10.1	1975	73	74	63	66	11.0	WNW	58	NW	1948	49	6.4	7	6	15	8	2	1	2	0	14	26	4	997.2
M	45.0	26.4	35.7	83	1945	-19	1960	908	0	2.57	7.43	1973	0.31	1958	2.38	1944	19.8	1972	11.0	1972	74	78	61	63	12.1	WNW	66	SW	1954	50	6.8	6	8	17	11	2	2	2	0	4	21	*	993.2
A	61.3	39.8	50.6	92	1980	9	1975	436	0	3.82	11.30	1973	0.68	1946	5.81	1973	9.5	1980	8.2	1970	73	79	55	55	12.2	NW	73	SW	1947	53	6.6	6	9	15	11	*	5	1	*	*	7	0	993.5
M	72.0	50.2	61.1	104	1934	26	1966	184	63	3.92	11.43	1974	0.55	1928	3.68	1970	0.3	1935	0.3	1935	75	80	53	53	10.3	E	68	SW	1955	57	6.3	8	9	14	12	0	7	1	1	0	1	0	991.9
J	81.4	60.2	70.8	104	1934	39	1972	20	194	4.42	8.83	1974	1.02	1963	5.02	1967	0.0		0.0		77	81	53	53	9.2	S	77	SW	1947	63	6.0	7	11	12	10	0	8	1	6	0	0	0	992.7
J	85.2	63.8	74.5	105	1940	46	1971	0	298	4.58	11.39	1969	1.02	1955	5.41	1963	0.0		0.0		81	84	57	59	7.6	E	65	W	1953	69	5.3	10	12	9	9	0	9	1	8	0	0	0	994.0
A	83.8	62.0	72.9	106	1936	40	1934	11	255	3.37	9.31	1965	0.35	1971	4.60	1951	0.0		0.0		84	88	58	62	7.3	E	63	SW	1978	67	5.3	10	11	10	9	0	7	2	6	0	0	0	995.0
S	76.0	53.2	64.6	100	1939	24	1942	79	67	3.84	14.18	1970	0.02	1979	6.29	1961	0.1	1942	0.1	1942	82	87	57	66	8.1	S	66	NW	1945	64	5.1	12	8	10	9	0	4	2	2	0	*	0	995.8
O	66.0	42.8	54.4	92	1963	16	1952	344	16	2.69	9.41	1941	0.01	1964	4.89	1954	6.6	1967	6.5	1967	75	80	54	62	9.2	S	56	SW	1949	60	5.2	12	8	11	7	*	2	2	*	0	6	0	996.0
N	48.1	30.2	39.2	80	1933	-9	1976	774	0	1.87	6.47	1934	0.29	1933	2.73	1961	15.6	1974	8.5	1975	75	78	62	69	10.8	WNW	60	W	1952	44	6.6	7	8	15	8	1	1	1	0	2	18	*	996.2
D	34.6	18.5	26.6	69	1970	-22	1963	1190	0	1.77	4.81	1942	0.23	1929	3.38	1942	21.7	1978	9.0	1978	76	78	69	73	10.6	WNW	61	SW	1947	41	6.8	7	6	18	9	2	1	2	0	14	27	4	996.5
YR	59.8	39.8	49.8	106	AUG 1936	-27	JAN 1979	6395	893	35.80	14.18	SEP 1970	0.01	OCT 1964	6.29	SEP 1961	26.7	JAN 1979	16.4	JAN 1971	76	80	59	62	9.9	WNW	77	SW	JUN 1947	57	6.1	100	103	162	113	10	48	19	22	53	136	18	995.0

(a) Length of record, years, through the current year unless otherwise noted, based on January data.
(b) 70° and above at Alaskan stations.
* Less than one half.
T Trace.

NORMALS - Based on record for the 1941-1970 period.
DATE OF AN EXTREME - The most recent in cases of multiple occurrence.
PREVAILING WIND DIRECTION - Record through 1963.
WIND DIRECTION - Numerals indicate tens of degrees clockwise from true north. 00 indicates calm.
FASTEST MILE WIND - Speed is fastest observed 1-minute value when the direction is in tens of degrees.

Average Temperature

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1941	25.6	22.4	33.6	54.4	65.8	71.6	75.0	74.6	67.5	55.6	41.6	34.1	51.8
1942	22.5	24.6	39.5	55.3	60.8	71.0	75.0	71.7	63.0	53.2	39.7	21.0	49.8
1943	19.6	27.3	32.3	48.2	57.8	73.2	75.9	74.8	61.2	52.2	35.0	26.9	48.7
1944	30.1	27.4	32.6	46.4	66.2	73.6	73.8	73.4	66.2	53.4	42.5	20.2	50.5
1945	18.2	27.7	48.8	51.6	55.6	66.5	72.2	73.2	63.9	51.0	38.6	19.7	48.9
1946	25.6	29.5	46.0	53.5	57.8	70.2	74.8	69.2	64.8	57.8	40.8	31.4	52.0
1947	27.0	20.1	32.5	48.8	56.5	67.4	72.2	81.0	68.2	62.6	33.8	30.2	50.0
1948	17.5	24.4	35.6	55.2	57.8	69.0	75.1	73.6	67.6	51.1	41.3	29.0	49.8
1949	23.0	24.8	37.1	49.4	63.8	73.6	78.0	73.5	59.0	57.0	41.8	31.0	51.0
1950	25.9	24.7	32.9	43.6	62.0	69.6	71.1	68.5	64.1	59.2	33.8	19.1	47.9
1951	20.6	25.6	31.8	47.3	63.3	67.2	72.9	71.5	61.8	54.6	32.6	23.4	47.7
1952	25.1	31.4	33.5	52.1	60.6	75.7	76.4	71.1	64.7	46.6	41.4	30.5	50.7
1953	25.3	30.0	37.3	45.9	60.5	74.3	75.9	74.3	65.4	57.9	42.8	30.0	51.6
1954	23.3	36.3	34.0	53.7	56.1	74.6	76.2	72.0	67.5	53.1	40.7	29.1	51.4
1955	22.0	25.3	36.0	57.0	63.8	67.8	80.5	76.8	66.4	53.6	34.2	24.2	50.6
1956	22.7	26.9	36.1	47.1	62.6	74.0	73.2	73.3	63.4	59.0	38.4	28.9	50.5
1957	16.6	32.5	37.0	50.4	59.6	70.4	76.7	73.2	61.9	49.8	38.1	32.8	49.9
1958	22.2	16.7	35.7	50.5	62.2	66.3	71.3	73.5	64.4	56.0	42.0	22.2	48.6
1959	15.7	25.7	36.9	49.4	65.3	72.0	73.2	77.2	66.3	49.9	31.4	34.7	49.8
#1960	25.7	22.3	19.9	53.4	58.9	68.5	72.8	73.8	68.6	53.8	41.5	23.7	48.6
1961	21.1	30.7	39.3	44.3	58.1	71.9	74.2	73.9	66.1	55.4	40.8	23.0	49.9
1962	16.2	23.7	32.6	49.3	67.9	70.6	71.6	72.9	61.7	55.2	39.0	23.2	48.7
1963	9.7	17.9	41.1	52.9	60.0	73.5	74.8	70.8	64.9	64.4	43.1	13.8	48.9
1964	28.4	27.0	34.4	51.5	66.3	72.3	76.6	70.8	65.6	50.7	44.2	24.8	51.1
1965	21.4	25.7	26.9	49.2	65.9	69.6	74.9	71.1	63.5	53.6	40.7	34.5	49.8
1966	14.3	24.8	39.2	47.0	56.3	70.5	77.9	70.6	62.9	52.5	41.7	28.1	48.8
1967	26.0	18.7	39.0	51.6	56.4	70.9	71.4	67.7	62.1	52.1	36.1	28.5	48.4
1968	21.0	22.7	41.9	51.3	57.2	72.1	73.1	73.5	63.1	53.2	37.3	24.5	49.3
1969	17.9	27.9	32.2	51.6	61.7	67.1	75.0	73.7	64.9	51.7	37.9	24.3	48.8
1970	13.1	24.7	33.6	51.8	64.9	70.7	75.7	72.9	65.2	53.9	39.2	28.9	49.5
1971	14.8	25.9	34.7	50.9	58.0	76.6	70.7	71.9	68.7	59.9	40.0	31.6	50.3
1972	18.6	20.7	36.0	48.0	63.0	69.4	74.6	74.0	66.7	50.2	37.3	22.3	48.4
1973	27.1	28.7	45.4	49.7	57.6	72.3	74.9	75.1	65.7	57.3	40.4	23.7	51.5
1974	21.6	26.8	38.5	53.3	58.8	67.5	77.3	70.3	60.4	53.7	40.1	28.6	49.8
1975	24.9	25.0	30.6	45.1	63.8	72.3	75.0	75.1	60.9	56.2	45.0	30.3	50.4
1976	19.1	35.2	41.2	52.9	57.5	70.5	75.8	71.8	63.0	46.8	30.1	19.6	48.6
1977	8.2	27.1	43.6	56.6	68.9	70.0	77.5	71.0	65.5	51.2	38.7	21.7	50.0
1978	12.4	14.1	33.0	50.8	60.2	71.0	74.0	73.2	69.2	51.5	39.2	22.7	47.6
1979	6.3	13.2	36.3	47.4	61.9	71.2	73.5	72.0	64.3	52.1	37.0	31.7	47.2
1980	23.4	19.2	33.5	49.1	62.7	69.2	77.6	75.8	65.7	48.6	39.7	26.6	49.3
RECORD MEAN	21.3	25.9	36.1	50.2	61.2	71.2	75.2	73.1	65.1	53.9	39.0	26.7	49.9
MAX	29.8	34.6	45.3	61.0	72.2	82.2	86.2	84.1	76.6	65.4	48.1	34.7	60.0
MIN	12.7	17.2	26.9	39.4	50.1	60.2	64.1	62.1	53.5	42.4	29.9	18.7	39.8

Heating Degree Days

MOLINE, IL

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1960-61	2	1	55	348	700	1277	1355	954	789	614	242	12	6349
1961-62	1	0	121	309	722	1297	1510	1150	999	481	78	22	6690
1962-63	8	1	149	342	774	1292	1717	1315	734	370	186	15	6903
1963-64	0	16	83	108	653	1585	1129	1097	942	405	71	20	6109
1964-65	3	24	100	437	624	1241	1344	1096	1174	471	86	3	6603
1965-66	0	21	115	363	722	939	1568	1119	794	533	287	31	6492
1966-67	0	6	116	386	695	1137	1202	1289	802	404	305	10	6352
1967-68	21	33	136	424	860	1127	1354	1221	711	409	248	18	6562
1968-69	8	15	96	404	826	1247	1458	1032	1010	398	172	57	6723
1969-70	0	0	80	445	805	1253	1607	1120	967	419	118	21	6835
1970-71	0	2	92	350	764	1111	1556	1088	931	425	242	0	6561
1971-72	17	3	94	195	740	1026	1434	1280	893	504	155	25	6366
1972-73	8	7	80	459	824	1319	1170	1013	598	452	223	1	6154
1973-74	0	0	78	258	733	1274	1338	1061	812	360	235	32	6181
1974-75	0	8	180	349	739	1122	1235	1114	1058	593	117	14	6529
1975-76	9	0	162	297	594	1072	1413	855	731	385	235	2	5755
1976-77	0	5	123	569	1038	1403	1755	1059	656	286	54	15	6963
1977-78	0	5	50	420	780	1337	1625	1417	986	423	229	13	7285
1978-79	1	4	59	415	767	1305	1820	1445	884	521	172	12	7405
1979-80	5	22	95	415	831	1027	1280	1324	966	481	129	27	6602
1980-81	0	1	77	503	755	1180							

Cooling Degree Days

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
1969	0	0	0	1	77	130	320	276	86	41	0	0	931
1970	0	0	0	32	119	198	341	256	105	15	0	0	1066
1971	0	0	0	9	32	355	203	225	212	44	0	0	1080
1972	0	0	0	3	102	165	312	294	138	6	0	0	1020
1973	0	0	0	2	2	226	312	323	103	27	0	0	995
1974	0	0	0	17	50	113	389	180	45	3	0	0	797
1975	0	0	0	1	85	241	325	319	44	29	0	0	1044
1976	0	0	0	26	12	175	341	221	72	13	0	0	860
1977	0	0	0	44	182	173	397	199	73	0	0	0	1068
1978	0	0	1	0	87	202	288	267	195	5	0	0	1045
1979	0	0	0	0	83	206	272	245	79	22	0	0	907
1980	0	0	0	11	65	158	395	343	107	1	0	0	1080

Precipitation

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1941	2.86	0.53	1.38	4.49	3.49	6.46	1.67	1.66	5.45	9.41	1.25	1.43	40.08
1942	0.78	1.08	1.39	0.92	4.06	5.73	4.18	2.80	2.95	0.92	2.99	4.81	32.61
1943	1.36	1.84	1.49	5.61	6.38	4.55	2.10	4.31	1.23	3.24	1.77	0.41	34.29
1944	0.60	1.99	5.27	5.55	4.60	6.19	2.40	2.88	1.60	1.06	2.98	1.54	36.66
1945	0.44	0.90	3.36	3.88	5.07	2.52	1.39	3.86	4.74	1.09	1.71	1.69	30.65
1946	2.53	0.28	4.64	0.68	4.10	6.42	1.47	3.91	3.47	1.65	2.49	1.43	33.07
1947	2.08	0.23	2.10	7.36	3.70	5.99	4.08	0.52	5.13	0.88	1.92	1.64	35.63
1948	0.84	2.35	3.46	1.67	2.11	2.91	8.27	2.83	3.66	1.81	2.23	2.21	34.35
1949	3.28	1.78	2.76	1.10	1.82	5.45	3.40	7.12	1.96	2.27	0.71	2.91	34.56
1950	3.56	1.76	1.09	5.87	3.01	5.11	4.41	1.87	3.85	0.61	0.73	1.01	32.88
1951	1.05	2.56	5.06	3.60	5.90	6.65	5.60	8.00	3.47	3.75	1.68	1.28	48.60
1952	1.57	0.78	3.88	1.17	2.22	7.13	2.66	3.50	0.77	0.04	2.99	1.93	28.64
1953	1.04	2.72	2.68	1.73	3.18	3.43	4.88	1.05	1.79	1.00	1.07	1.90	26.47
1954	0.34	1.69	3.13	4.58	3.58	5.10	1.98	6.67	1.59	7.43	0.75	2.02	38.86
1955	2.03	1.88	1.20	5.33	2.30	3.65	1.02	2.44	2.40	2.70	0.60	0.54	26.09
1956	0.31	1.39	0.54	2.15	2.27	1.55	4.09	3.34	0.49	0.40	2.43	1.24	20.20
1957	1.33	1.57	2.90	3.49	4.11	2.52	4.47	3.17	1.16	2.00	2.38	3.82	32.92
1958	1.26	0.49	0.31	2.53	3.96	3.77	4.62	1.09	3.00	1.75	1.17	0.50	24.45
1959	1.41	1.77	3.06	4.75	5.31	3.62	4.48	3.90	4.29	5.59	1.50	2.42	42.10
1960	3.43	2.78	1.28	4.89	3.98	5.40	3.40	3.97	3.42	4.91	1.11	0.88	39.45
1961	0.31	1.20	4.48	2.19	1.98	3.69	7.63	2.37	11.00	4.53	4.94	1.58	45.90
1962	2.08	1.84	2.42	2.44	6.10	1.48	6.73	1.95	2.90	4.15	1.21	0.55	33.85
1963	0.91	0.37	3.29	4.24	2.36	1.02	8.78	4.02	2.38	0.63	1.84	0.94	30.78
1964	1.59	0.73	4.02	6.37	2.68	3.89	5.31	2.41	3.99	0.01	3.40	1.27	35.67
1965	4.08	0.97	2.52	7.92	4.04	2.07	4.78	9.31	8.27	0.88	1.93	2.82	49.59
1966	2.01	0.89	0.85	3.96	6.39	4.25	7.74	0.77	2.80	4.38	1.12	2.52	37.68
1967	2.00	1.11	1.68	4.91	1.70	8.15	4.15	3.62	4.99	6.23	2.26	1.56	42.36
1968	0.80	0.32	1.96	3.57	2.59	3.70	3.91	2.16	5.70	1.09	3.29	2.76	31.85
1969	3.28	0.21	2.25	3.11	3.40	6.97	11.39	2.00	2.50	4.63	0.53	1.52	41.79
1970	0.54	0.57	2.62	4.66	11.07	3.25	6.27	3.61	14.18	1.75	1.25	1.95	51.72
1971	1.79	1.57	1.99	1.86	3.14	2.36	11.22	0.35	4.54	2.64	2.21	4.77	38.44
1972	1.19	1.24	3.73	5.19	4.24	8.66	3.79	8.20	3.29	2.39	2.75	1.98	46.65
1973	2.53	1.94	7.43	11.30	6.96	6.58	2.63	2.30	6.74	3.06	1.15	3.74	56.36
1974	4.39	1.57	2.94	5.08	11.43	8.83	1.73	3.37	1.08	1.99	2.59	1.83	46.83
1975	1.50	1.75	3.30	2.88	3.23	3.50	2.71	3.23	1.99	0.90	2.98	0.98	28.95
1976	0.88	1.11	3.67	4.21	4.13	2.02	3.34	0.60	1.89	2.13	0.65	0.34	24.97
1977	0.87	0.62	4.61	1.57	2.66	5.18	6.04	6.98	4.80	4.09	2.78	1.76	41.96
1978	0.59	0.67	0.78	3.02	4.65	3.50	3.24	2.47	3.91	1.95	3.32	3.17	31.27
1979	2.72	1.02	2.77	4.01	2.86	2.85	4.40	6.94	0.02	2.51	2.13	2.27	34.50
1980	1.31	1.55	1.74	2.34	4.01	4.97	3.46	9.09	2.94	1.63	0.70	2.75	36.49
RECORD MEAN	1.63	1.26	2.60	3.69	4.01	4.41	4.21	3.62	3.73	2.61	2.06	1.73	35.56

Snowfall

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1941-42	0.0	0.0	0.0	0.0	1.3	4.4	4.8	6.1	0.8	0.0	0.0	0.0	17.4
1942-43	0.0	0.0	0.1	T	1.6	7.6	11.1	2.5	5.3	T	0.0	0.0	28.2
1943-44	0.0	0.0	0.0	0.0	T	0.4	T	12.6	4.3	T	T	0.0	17.3
1944-45	0.0	0.0	0.0	0.0	0.3	13.9	5.8	4.3	0.7	T	T	0.0	25.0
1945-46	0.0	0.0	0.0	0.0	1.0	11.4	2.5	4.4	2.8	T	0.0	0.0	22.1
1946-47	0.0	0.0	0.0	T	0.0	5.3	8.5	4.3	7.2	T	0.0	0.0	25.3
1947-48	0.0	0.0	0.0	0.0	7.7	1.8	3.8	3.0	8.0	0.0	0.0	0.0	24.3
1948-49	0.0	0.0	0.0	0.0	T	6.2	5.3	2.5	0.9	1.1	0.0	0.0	16.0
1949-50	0.0	0.0	0.0	0.0	0.5	2.3	1.7	7.9	2.5	0.4	0.0	0.0	15.3
1950-51	0.0	0.0	0.0	0.0	2.1	7.3	7.1	4.9	17.0	1.4	0.0	0.0	39.8
1951-52	0.0	0.0	0.0	T	3.4	16.7	4.7	5.9	15.2	T	0.0	0.0	45.9
1952-53	0.0	0.0	0.0	0.0	T	2.5	12.1	6.2	7.1	0.4	0.0	0.0	28.3
1953-54	0.0	0.0	0.0	0.0	1.4	7.8	1.4	4.9	2.2	0.0	T	0.0	17.7
1954-55	0.0	0.0	0.0	T	3.7	16.2	11.2	6.1	8.8	0.0	0.0	0.0	46.0
1955-56	0.0	0.0	0.0	T	2.0	2.9	2.2	7.5	0.7	0.3	0.0	0.0	15.6
1956-57	0.0	0.0	0.0	0.0	2.1	6.5	11.8	0.7	6.9	6.5	0.0	0.0	34.5
1957-58	0.0	0.0	0.0	0.0	0.3	6.4	14.0	1.7	2.0	T	0.0	0.0	24.4
1958-59	0.0	0.0	0.0	0.0	0.9	8.1	15.1	3.6	13.9	1.7	0.0	0.0	43.3
1959-60	0.0	0.0	0.0	T	9.1	9.9	8.5	19.3	14.7	T	T	0.0	61.5
1960-61	0.0	0.0	0.0	0.0	T	5.5	3.4	2.5	2.4	2.5	0.0	0.0	16.3
1961-62	0.0	0.0	0.0	0.0	T	13.6	11.2	15.8	7.1	0.2	0.0	0.0	47.9
1962-63	0.0	0.0	0.0	0.2	T	3.1	14.7	5.8	7.3	0.0	0.0	0.0	31.1
1963-64	0.0	0.0	0.0	0.0	T	9.7	5.3	5.5	13.9	T	0.0	0.0	34.4
1964-65	0.0	0.0	0.0	0.0	2.1	11.7	10.2	7.4	16.2	0.0	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.3	5.7	6.0	0.8	0.7	0.1	T	0.0	13.6
1966-67	0.0	0.0	0.0	0.0	T	7.2	14.4	13.2	2.2	1.1	0.0	0.0	38.1
1967-68	0.0	0.0	0.0	6.6	0.3	3.2	8.6	2.8	1.1	T	0.0	0.0	22.6
1968-69	0.0	0.0	0.0	T	5.9	5.4	6.2	0.9	5.6	0.0	T	0.0	24.0
1969-70	0.0	0.0	0.0	0.0	1.5	15.4	7.2	6.1	12.7	8.3	0.0	0.0	51.2
1970-71	0.0	0.0	0.0	0.0	0.2	2.2	17.7	2.6	7.8	T	0.0	0.0	30.5
1971-72	0.0	0.0	0.0	0.0	5.9	0.3	11.8	13.7	19.8	2.6	0.0	0.0	54.1
1972-73	0.0	0.0	0.0	2.0	6.7	6.6	0.4	8.6	0.5	0.9	0.0	0.0	25.7
1973-74	0.0	0.0	0.0	0.0	T	11.4	12.7	7.4	3.0	0.6	0.0	0.0	35.1
1974-75	0.0	0.0	0.0	0.0	15.6	8.8	7.6	19.3	12.2	6.2	0.0	0.0	69.7
1975-76	0.0	0.0	0.0	0.0	9.9	2.5	8.6	0.1	0.6	0.0	T	0.0	21.7
1976-77	0.0	0.0	0.0	0.0	7.7	4.1	12.3	2.5	10.8	1.0	0.0	0.0	38.4
1977-78	0.0	0.0	0.0	0.0	4.8	20.8	6.1	6.8	6.5	T	0.0	0.0	45.0
1978-79	0.0	0.0	0.0	0.0	7.1	21.7	26.7	4.5	3.4	0.6	0.0	0.0	64.0
1979-80	0.0	0.0	0.0	T	1.9	0.8	4.2	13.1	7.5	9.5	0.0	0.0	37.0
1980-81	0.0	0.0	0.0	2.4	1.1	4.5							
RECORD MEAN	0.0	0.0	T	0.2	2.4	7.0	8.0	5.8	6.5	1.0	T	0.0	30.9

# Indicates a station move or relocation of instruments. See Station Location table.

Record mean values above are means through the current year for the period beginning in 1930 for temperature, 1927 for precipitation, and 1933 for snowfall.

STATION LOCATION

MOLINE, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Sunshine Switch	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Automatic Observing Equipment *	Remarks
NE Corner, Moline AP 4.5 miles S of Moline Post Office	10/1/26	12/27/39	NA	41° 27'	90° 31'	589	53	3	3				3			
Administration Building Quad City Airport	12/27/39	4/3/61	1200 feet W	41° 27'	90° 31'	589 h582	62 f25	5 b36 c5 d36	5 a36 c5 d36	Unk		4 e5	15	g4		a - Moved to roof site 12/1/54. b - Moved to roof site 5/31/55. c - Moved to field site 6/7/56. d - Moved to roof site 4/16/58. e - Effective 4/16/58. f - Moved to field site 11/13/58. g - Telepsychrometer (5') 6/7/56-3/1/60. Hygro. comm. 3/1/60. h - Effective 3/1/60.
Terminal Building Quad City Airport	4/4/61	Present	200 feet SE	41° 27'	90° 31'	582	i25	17	17	27	k16	i5 j16	15	i4	NA	i - Not moved 4/4/61. j - Effective 7/22/63. k - Added 6/1/64.

* Type
M = AMOS
T = AUTOB

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Daniel B. Mitchell
Director, National Climatic Center

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al Climatological Data

Annual Summary With Comparative Data

1979

MOLINE, ILLINOIS

Narrative Climatological Summary

This area has a temperate continental climate, with a wide temperature range throughout the year. There are some intensely hot, usually humid, periods in summer and severely cold periods in winter. Maxima of 90° or higher have occured as frequently as on 55 days (1936), but in 1882 there were none. Zero or lower readings have occurred during every winter of record ranging from 37 times in 1874-75 to 1 time during 4 winters.

Freezing temperatures have occurred as late in spring as May 20 and as early in autumn as September 20. Precipitation usually is well distributed throughout the year. Normally the greatest amounts fall during the 177-day average crop growing season (April 21-October 14, inclusive). Substantial weather changes frequently occur at 3- or 4-day intervals, as a direct result of proximity to some of the most important storm tracks.

The locality is in the heart of the Corn Belt. Agricultural crops include many important staple products in addition to corn. Cattle, hogs, horses, and poultry produced in Iowa and Illinois rank high in the nation. Close to the Mississippi River there is large scale truck gardening and considerable dairying. Field production of grains and livestock attains greater development farther away from the large streams, where the countryside is rolling prairie. Damaging drouths are not common. This, together with the variety of agricultural products, has led to designating the section as the "Bread Basket" of America.

The climate is favorable for many industries as evidenced by the large number and variety of manufacturing and other enterprises which have located and developed in the community. Among these are some of the world's largest producers of agricultural machinery.

Records began in Davenport, Iowa, in May 1871, and have been continuous to date. At the Quad-City Airport, Moline, Illinois, records began in October 1926, but are not complete in the years 1935, 1936, and 1937. For a summary of data from Lock & Dam No. 15, Davenport, Iowa, please refer to IOWA CLIMATOLOGICAL DATA.

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Meteorological Data For The Current Year

Station: MOLINE, ILLINOIS # 14923 — QUAD CITY AIRPORT — Standard time used: CENTRAL — Latitude: 41° 27′ N — Longitude: 90° 31′ W — Elevation (ground): 582 feet — Year: 1979

Month	Temperature °F: Averages: Daily maximum	Daily minimum	Monthly	Extremes: Highest	Date	Lowest	Date	Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Total	Greatest in 24 hrs.	Date	Snow, Ice pellets: Total	Greatest in 24 hrs.	Date	Relative humidity, pct. (Local time): Hour 00	Hour 06	Hour 12	Hour 18	Wind: Resultant: Direction	Speed m.p.h.	Average speed m.p.h.	Fastest mile: Speed m.p.h.	Direction	Date	Percent of possible sunshine	Average sky cover, tenths, sunrise to sunset	Number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperature °F: Maximum: (b) 90° and above	32° and below	Minimum: 32° and below	0° and below	Average station pressure mb. Elev. 594 feet m.s.l.
JAN	16.0	-3.5	6.3	36	19	-27	2	1820	0	2.72	1.55	12-13	26.7	15.1	12-13	71	72	65	67	28	5.2	10.4	26	NW	13	34	7.0	7	3	21	14	7	0	0	0	29	31	21	998.3
FEB	22.4	3.9	13.2	40	23	-25	9	1445	0	1.02	0.51	20-21	4.5	1.9	8	71	72	64	67	02	1.1	9.9	31	W	21	43	6.6	5	9	14	8	3	1	3	0	20	28	11	1001.0
MAR	44.5	28.0	36.3	71	19	7	11	884	0	2.77	1.00	29	3.4	1.4	24	79	82	74	77	26	3.3	12.2	34	NW	14	32	7.9	3	8	20	15	1	2	3	0	3	17	0	993.9
APR	56.9	37.9	47.4	74	20	18	6	521	0	4.01	1.12	11	0.6	0.6	2	78	81	61	61	27	1.2	12.3	49	NE	11	44	7.3	4	8	18	12	0	4	0	0	0	7	0	994.6
MAY	74.3	49.5	61.9	91	30	34	1	172	83	2.86	0.94	10-11	0.0	0.0		70	75	47	44	22	3.2	11.5	43	W	10	65	5.3	9	14	8	10	0	5	1	2	0	0	0	992.6
JUN	82.9	59.5	71.2	92	6	46	25	12	206	2.85	1.51	9-10	0.0	0.0		72	78	50	49	21	3.0	10.9	33	SW	20	52	5.5	11	8	11	11	0	7	0	5	0	0	0	993.9
JUL	84.7	62.2	73.5	91	23	47	6	5	272	4.40	2.25	13-14	0.0	0.0		84	86	57	58	12	2.3	6.7	46	W	30	44	6.7	2	13	16	11	0	10	4	4	0	0	0	994.9
AUG	82.2	61.7	72.0	94	7	47	15	22	245	6.94	2.49	19-20	0.0	0.0		88	92	65	70	19	2.8	9.0	34	NW	20	57	6.0	6	14	11	12	0	15	0	5	0	0	0	994.2
SEP	78.3	50.2	64.3	89	11	36	22	95	79	0.02	0.02	24	0.0	0.0		85	90	48	60	23	1.1	7.7	23	SE	1	79	2.7	21	7	2	1	0	1	2	0	0	0	0	995.9
OCT	63.9	40.2	52.1	84	21	25	26	415	22	2.51	1.05	22-23	T	T	25	78	82	55	60	25	3.5	11.4	30	SE	31	53	6.3	6	11	14	10	0	5	2	0	0	12	0	990.5
NOV	46.2	27.8	37.0	69	18	14	10	831	0	2.13	1.35	20-21	1.9	1.5	27	78	80	61	68	25	6.2	11.5	27	W	28	40	6.7	7	7	16	11	1	0	0	0	4	23	0	995.6
DEC	41.2	22.1	31.7	60	10	-1	17	1027	0	2.27	1.23	22	0.8	0.5	1	73	77	63	69	26	5.3	11.1	34	W	7	51	6.0	9	9	13	7	0	1	6	0	5	26	1	998.0
YEAR	57.8	36.6	47.2	94	AUG 7	-27	JAN 2	7249	907	34.50	2.49	AUG 19-20	37.9	15.1	JAN 12-13	77	81	59	63	24	2.4	10.4	49	NE	APR 11	50	6.2	90	111	164	122	12	51	21	16	61	144	33	995.3

Normals, Means, And Extremes

Month	Temperatures °F: Normal: Daily maximum	Daily minimum	Monthly	Extremes: Record highest	Year	Record lowest	Year	Normal Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Normal	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year	Snow, Ice pellets: Maximum monthly	Year	Maximum in 24 hrs.	Year	Relative humidity pct. (Local time): Hour 00	Hour 06	Hour 12	Hour 18	Wind: Mean speed m.p.h.	Prevailing direction	Fastest mile: Speed m.p.h.	Direction	Year	Pct. of possible sunshine	Mean sky cover, tenths, sunrise to sunset	Mean number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperatures °F: Max.: (b) 90° and above	32° and below	Min.: 32° and below	0° and below	Average station pressure mb. Elev. 594 feet m.s.l.
(a)				47		47					50		50		50		48		46		19	19	19	19	36	12	51	51		36	37	46	46	46	47	47	46	45	19	19	19	19	7
J	30.0	13.0	21.5	65	1950	-27	1979	1349	0	1.66	4.39	1974	0.31	1961	2.07	1960	26.7	1979	16.4	1971	72	72	65	68	10.8	WNW	56	SW	1946	48	6.5	8	7	16	9	3	*	2	0	20	29	10	997.6
F	34.3	17.0	25.7	71	1976	-25	1979	1100	0	1.29	2.78	1960	0.17	1933	1.90	1948	19.3	1975	10.1	1975	72	74	63	65	11.0	WNW	58	NW	1948	50	6.4	7	6	15	8	2	1	2	0	13	26	4	996.9
M	45.0	26.4	35.7	83	1945	-19	1960	908	0	2.57	7.43	1973	0.31	1958	2.38	1944	19.8	1972	11.0	1972	74	77	61	63	12.1	WNW	66	SW	1954	50	6.8	6	8	17	11	2	2	2	0	4	21	*	993.0
A	61.3	39.8	50.6	91	1970	9	1975	436	0	3.82	11.30	1973	0.68	1946	5.81	1973	8.3	1970	8.2	1970	73	79	55	55	12.2	NW	73	SW	1947	53	6.6	6	9	15	11	*	5	1	*	*	7	0	993.8
M	72.0	50.2	61.1	104	1934	26	1966	184	63	3.92	11.43	1974	0.55	1928	3.68	1970	0.3	1935	0.3	1935	75	80	53	53	10.4	E	68	SW	1955	57	6.3	7	10	14	12	0	7	1	2	0	1	0	991.9
J	81.4	60.2	70.8	104	1934	39	1972	20	194	4.42	8.83	1974	1.02	1963	5.02	1967	0.0		0.0		77	81	53	53	9.2	S	77	SW	1947	63	6.0	7	11	12	10	0	8	1	6	0	0	0	992.6
J	85.2	63.8	74.5	105	1940	46	1971	0	298	4.58	11.39	1969	1.02	1955	5.41	1963	0.0		0.0		81	84	57	59	7.6	E	65	W	1953	69	5.4	10	12	9	9	0	9	1	8	0	0	0	994.3
A	83.8	62.0	72.9	106	1936	40	1934	11	255	3.37	9.31	1965	0.35	1971	4.60	1951	0.0		0.0		84	88	58	62	7.3	E	63	SW	1978	68	5.3	10	11	10	9	0	7	2	5	0	0	0	995.3
S	76.0	53.2	64.6	100	1939	24	1942	79	67	3.84	14.18	1970	0.02	1979	6.29	1961	0.1	1942	0.1	1942	82	87	57	66	8.1	S	66	NW	1945	64	5.1	12	8	10	9	0	4	2	2	0	*	0	995.9
O	66.0	42.8	54.4	92	1963	16	1952	344	16	2.69	9.41	1941	0.01	1964	4.89	1954	6.6	1967	6.5	1967	76	81	54	63	9.2	S	56	SW	1949	60	5.2	12	8	11	7	*	2	2	*	0	5	0	996.1
N	48.1	30.2	39.2	80	1933	-9	1976	774	0	1.87	6.47	1934	0.29	1933	2.73	1961	15.6	1974	8.5	1975	75	79	62	69	10.8	WNW	60	W	1952	43	6.7	7	7	16	8	1	1	1	0	2	18	*	996.0
D	34.6	18.5	26.6	69	1970	-22	1963	1190	0	1.77	4.81	1942	0.23	1929	3.38	1942	21.7	1978	9.0	1978	76	78	69	73	10.7	WNW	61	SW	1947	41	6.8	7	6	18	9	2	1	2	0	14	27	4	995.8
YR	59.8	39.8	49.8	106	AUG 1936	-27	JAN 1979	6395	893	35.80	14.18	SEP 1970	0.01	OCT 1964	6.29	SEP 1961	26.7	JAN 1979	16.4	JAN 1971	76	80	59	62	9.9	WNW	77	SW	JUN 1947	57	6.1	99	103	163	112	10	47	19	22	52	136	19	994.9

(a) Length of record, years, through the current year unless otherwise noted, based on January data.
(b) 70° and above at Alaskan stations.
* Less than one half.
T Trace.

NORMALS - Based on record for the 1941-1970 period.
DATE OF AN EXTREME - The most recent in cases of multiple occurrence.
PREVAILING WIND DIRECTION - Record through 1963.
WIND DIRECTION - Numerals indicate tens of degrees clockwise from true north. 00 indicates calm.
FASTEST MILE WIND - Speed is fastest observed 1-minute value when the direction is in tens of degrees.

Average Temperature

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1940	10.0	26.2	32.3	47.8	57.8	72.6	76.9	72.1	64.3	57.0	36.0	31.5	48.7
1941	25.6	22.4	33.6	54.4	65.8	71.6	75.0	74.8	67.5	55.6	41.6	34.1	51.8
1942	22.5	24.6	39.5	55.3	60.8	71.0	75.0	71.7	63.0	53.2	39.7	21.0	49.8
1943	19.6	27.3	32.3	48.2	57.8	73.2	75.9	74.8	61.2	52.2	35.0	26.9	48.7
1944	30.1	27.4	32.6	46.4	66.2	73.6	73.8	73.4	66.2	53.4	42.5	20.2	50.5
1945	18.2	27.7	48.8	51.6	55.6	66.5	72.2	73.2	63.9	51.0	38.6	19.7	48.9
1946	25.6	29.5	48.0	53.5	57.8	70.2	74.8	69.2	64.8	57.8	40.8	31.4	52.0
1947	27.0	20.1	32.5	48.8	56.5	67.4	72.2	81.0	68.2	62.6	33.8	30.2	50.0
1948	17.5	24.4	35.6	55.2	57.8	69.0	75.1	73.6	67.6	51.1	41.3	29.0	49.8
1949	23.0	24.8	37.1	49.4	63.8	73.6	78.0	73.5	59.0	57.0	41.8	31.0	51.0
1950	25.9	24.7	32.9	43.6	62.0	69.6	71.1	68.5	64.1	59.2	33.8	19.1	47.9
1951	20.6	25.6	31.8	47.3	63.3	67.2	72.9	71.5	61.8	54.6	32.6	23.4	47.7
1952	25.1	31.4	33.5	52.1	60.6	75.7	76.4	71.1	64.7	46.6	41.4	30.5	50.7
1953	25.3	30.0	37.3	45.9	60.5	74.3	75.9	74.3	65.4	57.9	42.8	30.0	51.6
1954	23.3	36.3	34.0	53.7	56.1	74.6	76.2	72.0	67.5	53.1	40.7	29.1	51.4
1955	22.0	25.3	36.0	57.0	63.8	67.8	80.5	76.8	66.4	53.6	34.2	24.2	50.6
1956	22.7	26.9	36.1	47.1	62.6	74.0	73.2	73.3	63.4	59.0	38.4	28.9	50.5
1957	16.6	32.5	37.0	50.4	59.6	70.4	76.7	73.2	61.9	49.8	38.1	32.8	49.9
1958	22.2	16.7	35.7	50.5	62.2	66.3	71.3	73.5	64.4	56.0	42.0	22.2	48.6
1959	15.7	25.7	36.9	49.4	65.3	72.0	73.2	77.2	66.3	49.9	31.4	34.7	49.8
#1960	25.7	22.3	19.9	53.4	58.9	68.5	72.8	73.8	68.6	53.8	41.5	23.7	48.6
1961	21.1	30.7	39.3	44.3	58.1	71.9	74.2	73.9	66.1	55.4	40.8	23.0	49.9
1962	16.2	23.7	32.6	49.3	67.9	70.6	71.6	72.9	61.7	55.2	39.0	23.2	48.7
1963	9.7	17.9	41.1	52.9	60.0	73.5	74.8	70.8	64.9	64.4	43.1	13.8	48.9
1964	28.4	27.0	34.4	51.5	66.3	72.3	76.6	70.8	65.6	50.7	44.2	24.8	51.1
1965	21.4	25.7	26.9	49.2	65.9	69.6	74.9	71.1	63.5	53.6	40.7	34.5	49.8
1966	14.3	24.8	39.2	47.0	56.3	70.5	77.9	70.6	62.9	52.5	41.7	28.1	48.8
1967	26.0	18.7	39.0	51.6	56.4	70.9	71.4	67.7	62.1	52.1	36.1	28.5	48.4
1968	21.0	22.7	41.9	51.3	57.2	72.1	73.1	73.5	63.1	53.2	37.3	24.5	49.3
1969	17.9	27.9	32.2	51.6	61.7	67.1	75.0	73.7	64.9	51.7	37.9	24.3	48.8
1970	13.1	24.7	33.6	51.8	64.9	70.7	75.7	72.9	65.2	53.9	39.2	28.9	49.5
1971	14.8	25.9	34.7	50.9	58.0	76.6	70.7	71.9	68.7	59.9	40.0	31.6	50.3
1972	18.6	20.7	36.0	48.0	63.0	69.4	74.6	74.0	66.7	50.2	37.3	22.3	48.4
1973	27.1	28.7	45.4	49.7	57.6	72.3	74.9	75.1	65.7	57.3	40.4	23.7	51.5
1974	21.6	26.8	38.5	53.3	58.8	67.5	77.3	70.3	60.4	53.7	40.1	28.6	49.8
1975	24.9	25.0	30.6	45.1	63.8	72.3	75.0	75.1	60.9	56.2	45.0	30.3	50.4
1976	19.1	35.2	41.2	52.9	57.5	70.5	75.8	71.8	63.0	46.8	30.1	19.6	48.6
1977	8.2	27.1	43.6	56.6	68.9	70.0	77.5	71.0	65.5	51.2	38.7	21.7	50.0
1978	12.4	14.1	33.0	50.8	60.2	71.0	74.0	73.2	69.2	51.5	39.2	22.7	47.6
1979	6.3	13.2	36.3	47.4	61.9	71.2	73.5	72.0	64.3	52.1	37.0	31.7	47.2
RECORD MEAN	21.2	26.0	36.2	50.2	61.2	71.2	75.2	73.1	65.1	54.0	39.0	26.7	49.9
MAX	29.8	34.7	45.4	61.0	72.2	82.2	86.2	84.1	76.6	65.5	48.0	34.7	60.0
MIN	12.6	17.3	26.9	39.4	50.1	60.2	64.1	62.0	53.5	42.5	29.9	18.7	39.8

Heating Degree Days

MOLINE, IL

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
#1959-60	4	1	100	462	1002	932	1212	1229	1392	376	203	13	6926
1960-61	2	1	55	348	700	1277	1355	954	789	614	242	12	6349
1961-62	1	0	121	309	722	1297	1510	1150	999	481	78	22	6690
1962-63	8	1	149	342	774	1292	1717	1315	734	370	186	15	6903
1963-64	0	16	93	168	653	1585	1129	1097	942	405	71	20	6109
1964-65	3	24	100	437	624	1241	1344	1096	1174	471	86	3	6603
1965-66	0	21	115	363	722	939	1568	1119	794	533	287	31	6492
1966-67	0	6	116	386	695	1137	1202	1289	802	404	305	10	6352
1967-68	21	33	136	424	860	1127	1354	1221	711	409	248	18	6562
1968-69	8	15	96	404	826	1247	1458	1032	1010	398	172	57	6723
1969-70	0	0	80	445	805	1253	1607	1120	967	419	118	21	6835
1970-71	0	2	92	350	764	1111	1556	1088	931	425	242	0	6561
1971-72	17	3	94	195	740	1026	1434	1280	893	504	155	25	6366
1972-73	8	7	80	459	824	1319	1170	1013	598	452	223	1	6154
1973-74	0	0	78	258	733	1274	1338	1061	812	360	235	32	6181
1974-75	0	8	180	349	739	1122	1235	1114	1058	593	117	14	6529
1975-76	9	0	162	297	594	1072	1413	855	731	385	235	2	5755
1976-77	0	5	123	569	1038	1403	1755	1059	656	286	54	15	6963
1977-78	0	5	50	420	780	1337	1625	1417	986	423	229	13	7285
1978-79	1	4	59	415	767	1305	1820	1445	884	521	172	12	7405
1979-80	5	22	95	415	831	1027							

Cooling Degree Days

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
1969	0	0	0	1	77	130	320	276	86	41	0	0	931
1970	0	0	0	32	119	198	341	256	105	15	0	0	1066
1971	0	0	0	9	32	355	203	225	212	44	0	0	1080
1972	0	0	0	3	102	165	312	294	138	6	0	0	1020
1973	0	0	0	2	2	226	312	323	103	27	0	0	995
1974	0	0	0	17	50	113	389	180	45	3	0	0	797
1975	0	0	0	1	85	241	325	319	44	29	0	0	1044
1976	0	0	0	26	12	175	341	221	72	13	0	0	860
1977	0	0	0	44	182	173	397	199	73	0	0	0	1068
1978	0	0	1	0	87	202	288	267	195	5	0	0	1045
1979	0	0	0	0	83	206	272	245	79	22	0	0	907

Precipitation

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1940	1.26	0.53	1.57	3.01	1.37	1.19	2.34	4.88	1.54	2.02	1.57	1.57	22.85
1941	2.86	0.53	1.38	4.49	3.49	6.46	1.67	1.66	5.45	9.41	1.25	1.43	40.08
1942	0.78	1.08	1.39	0.92	4.06	5.73	4.18	2.80	2.95	0.92	2.99	4.81	32.61
1943	1.36	1.84	1.49	5.61	6.38	4.55	2.10	4.31	1.23	3.24	1.77	0.41	34.29
1944	0.60	1.99	5.27	5.55	4.60	6.19	2.40	2.88	1.60	1.06	2.98	1.54	36.66
1945	0.44	0.90	3.36	3.88	5.07	2.52	1.39	3.86	4.74	1.09	1.71	1.69	30.65
1946	2.53	0.28	4.64	0.68	4.10	6.42	1.47	3.91	3.47	1.65	2.49	1.43	33.07
1947	2.08	0.23	2.10	7.36	3.70	5.99	4.08	0.52	5.13	0.88	1.92	1.64	35.63
1948	0.84	2.35	3.46	1.67	2.11	2.91	8.27	2.83	3.66	1.81	2.23	2.21	34.35
1949	3.28	1.78	2.76	1.10	1.82	5.45	3.40	7.12	1.96	2.27	0.71	2.91	34.56
1950	3.56	1.76	1.09	5.87	3.01	5.11	4.41	1.87	3.85	0.61	0.73	1.01	32.88
1951	1.05	2.56	5.06	3.60	5.90	6.65	5.60	8.00	3.47	3.75	1.68	1.28	48.60
1952	1.57	0.78	3.88	1.17	2.22	7.13	2.66	3.50	0.77	0.04	2.99	1.93	28.64
1953	1.04	2.72	2.68	1.73	3.18	3.43	4.88	1.05	1.79	1.00	1.07	1.90	26.47
1954	0.34	1.69	3.13	4.58	3.58	5.10	1.98	6.67	1.59	7.43	0.75	2.02	38.86
1955	2.03	1.88	1.20	5.33	2.30	3.65	1.02	2.44	2.40	2.70	0.60	0.54	26.09
1956	0.31	1.39	0.54	2.15	2.27	1.55	4.09	3.34	0.49	0.40	2.43	1.24	20.20
1957	1.33	1.57	2.90	3.49	4.11	2.52	4.47	3.17	1.16	2.00	2.38	3.82	32.92
1958	1.26	0.49	0.31	2.53	3.96	3.77	4.62	1.09	3.00	1.75	1.17	0.50	24.45
1959	1.41	1.77	3.06	4.75	5.31	3.62	4.48	3.90	4.29	5.59	1.50	2.42	42.10
1960	3.43	2.78	1.28	4.89	3.98	5.40	3.40	3.97	3.42	4.91	1.11	0.88	39.45
1961	0.31	1.20	4.48	2.19	1.98	3.69	7.63	2.37	11.00	4.53	4.94	1.58	45.90
1962	2.08	1.84	2.42	2.44	6.10	1.48	6.73	1.95	2.90	4.15	1.21	0.55	33.85
1963	0.91	0.37	3.29	4.24	2.36	1.02	8.78	4.02	2.38	0.63	1.84	0.94	30.78
1964	1.59	0.73	4.02	6.37	2.68	3.89	5.31	2.41	3.99	0.01	3.40	1.27	35.67
1965	4.08	0.97	2.52	7.92	4.04	2.07	4.78	9.31	8.27	0.88	1.93	2.82	49.59
1966	2.01	0.89	0.85	3.96	6.39	4.25	7.74	0.77	2.80	4.38	1.12	2.52	37.68
1967	2.00	1.11	1.68	4.91	1.70	8.15	4.15	3.62	4.99	6.23	2.26	1.56	42.36
1968	0.80	0.32	1.96	3.57	2.59	3.70	3.91	2.16	5.70	1.09	3.29	2.76	31.85
1969	3.28	0.21	2.25	3.11	3.40	6.97	11.39	2.00	2.50	4.63	0.53	1.52	41.79
1970	0.54	0.57	2.62	4.66	11.07	3.25	6.27	3.61	14.18	1.75	1.25	1.95	51.72
1971	1.79	1.57	1.99	1.86	3.14	2.36	11.22	0.35	4.54	2.64	2.21	4.77	38.44
1972	1.19	1.24	3.73	5.19	4.24	8.66	3.79	8.20	3.29	2.39	2.75	1.98	46.65
1973	2.53	1.94	7.43	11.30	6.96	6.58	2.63	2.30	6.74	3.06	1.15	3.74	56.36
1974	4.39	1.57	2.94	5.08	11.43	8.83	1.73	3.37	1.08	1.99	2.59	1.83	46.83
1975	1.50	1.75	3.30	2.88	3.23	3.50	2.71	3.23	1.99	0.90	2.98	0.98	28.95
1976	0.88	1.11	3.67	4.21	4.13	2.02	3.34	0.60	1.89	2.13	0.65	0.34	24.97
1977	0.87	0.62	4.61	1.57	2.66	5.18	6.04	6.98	4.80	4.09	2.78	1.76	41.96
1978	0.59	0.67	0.78	3.02	4.65	3.50	3.24	2.47	3.91	1.95	3.32	3.17	31.27
1979	2.72	1.02	2.77	4.01	2.86	2.85	4.40	6.94	0.02	2.51	2.13	2.27	34.50
RECORD MEAN	1.63	1.25	2.61	3.72	4.01	4.40	4.22	3.51	3.74	2.63	2.08	1.71	35.51

Snowfall

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1940-41	0.0	0.0	0.0	0.0	2.3	1.4	14.5	3.9	11.5	0.0	0.0	0.0	33.6
1941-42	0.0	0.0	0.0	0.0	1.3	4.4	4.8	6.1	0.8	0.0	0.0	0.0	17.4
1942-43	0.0	0.0	0.1	T	1.6	7.6	11.1	2.5	5.3	T	0.0	0.0	28.2
1943-44	0.0	0.0	0.0	0.0	T	0.4	T	12.6	4.3	T	T	0.0	17.3
1944-45	0.0	0.0	0.0	0.0	0.3	13.9	5.8	4.3	0.7	T	T	0.0	25.0
1945-46	0.0	0.0	0.0	0.0	1.0	11.4	2.5	4.4	2.8	T	0.0	0.0	22.1
1946-47	0.0	0.0	0.0	T	0.0	5.3	8.5	4.3	7.2	T	0.0	0.0	25.3
1947-48	0.0	0.0	0.0	0.0	7.7	1.8	3.8	3.0	8.0	0.0	0.0	0.0	24.3
1948-49	0.0	0.0	0.0	0.0	T	6.2	5.3	2.5	0.9	1.1	0.0	0.0	16.0
1949-50	0.0	0.0	0.0	0.0	0.5	2.3	1.7	7.9	2.5	0.4	0.0	0.0	15.3
1950-51	0.0	0.0	0.0	0.0	2.1	7.3	7.1	4.9	17.0	1.4	0.0	0.0	39.8
1951-52	0.0	0.0	0.0	T	3.4	16.7	4.7	5.9	15.2	T	0.0	0.0	45.9
1952-53	0.0	0.0	0.0	0.0	T	2.5	12.1	6.2	7.1	0.4	0.0	0.0	28.3
1953-54	0.0	0.0	0.0	0.0	1.4	7.8	1.4	4.9	2.2	0.0	T	0.0	17.7
1954-55	0.0	0.0	0.0	T	3.7	16.2	11.2	6.1	8.8	0.0	0.0	0.0	46.0
1955-56	0.0	0.0	0.0	T	2.0	2.9	2.2	7.5	0.7	0.3	0.0	0.0	15.6
1956-57	0.0	0.0	0.0	0.0	2.1	6.5	11.8	0.7	6.9	6.5	0.0	0.0	34.5
1957-58	0.0	0.0	0.0	0.0	0.3	6.4	14.0	1.7	2.0	T	0.0	0.0	24.4
1958-59	0.0	0.0	0.0	0.0	0.9	8.1	15.1	3.6	13.9	1.7	0.0	0.0	43.3
1959-60	0.0	0.0	0.0	T	9.1	9.9	8.5	19.3	14.7	T	T	0.0	61.5
1960-61	0.0	0.0	0.0	0.0	T	5.5	3.4	2.5	2.4	2.5	0.0	0.0	16.3
1961-62	0.0	0.0	0.0	0.0	T	13.6	11.2	15.8	7.1	0.2	0.0	0.0	47.9
1962-63	0.0	0.0	0.0	0.2	T	3.1	14.7	5.8	7.3	0.0	0.0	0.0	31.1
1963-64	0.0	0.0	0.0	0.0	T	9.7	5.3	5.5	13.9	T	0.0	0.0	34.4
1964-65	0.0	0.0	0.0	0.0	2.1	11.7	10.2	7.4	16.2	0.0	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.3	5.7	6.0	0.8	0.7	0.1	T	0.0	13.6
1966-67	0.0	0.0	0.0	0.0	T	7.2	14.4	13.2	2.2	1.1	0.0	0.0	38.1
1967-68	0.0	0.0	0.0	6.6	0.3	3.2	8.6	2.8	1.1	T	0.0	0.0	22.6
1968-69	0.0	0.0	0.0	T	5.9	5.4	6.2	0.9	5.6	0.0	T	0.0	24.0
1969-70	0.0	0.0	0.0	0.0	1.5	15.4	7.2	6.1	12.7	8.3	0.0	0.0	51.2
1970-71	0.0	0.0	0.0	0.0	0.2	2.2	17.7	2.6	7.8	T	0.0	0.0	30.5
1971-72	0.0	0.0	0.0	0.0	5.9	0.3	11.8	13.7	19.8	2.6	0.0	0.0	54.1
1972-73	0.0	0.0	0.0	2.0	6.7	6.6	0.4	8.6	0.5	0.9	0.0	0.0	25.7
1973-74	0.0	0.0	0.0	0.0	T	11.4	12.7	7.4	3.0	0.6	0.0	0.0	35.1
1974-75	0.0	0.0	0.0	0.0	15.6	8.8	7.6	19.3	12.2	6.2	0.0	0.0	69.7
1975-76	0.0	0.0	0.0	0.0	9.9	2.5	8.6	0.1	0.6	0.0	T	0.0	21.7
1976-77	0.0	0.0	0.0	0.0	7.7	4.1	12.3	2.5	10.8	1.0	0.0	0.0	38.4
1977-78	0.0	0.0	0.0	0.0	4.8	20.8	6.1	6.8	6.5	T	0.0	0.0	45.0
1978-79	0.0	0.0	0.0	0.0	7.1	21.7	26.7	4.5	3.4	0.6	0.0	0.0	64.0
1979-80	0.0	0.0	0.0	T	1.9	0.8							
RECORD MEAN	0.0	0.0	T	0.2	2.5	7.1	8.1	5.7	6.5	0.8	T	0.0	30.9

# Indicates a station move or relocation of instruments. See Station Location table.

Record mean values above are means through the current year for the period beginning in 1930 for temperature, 1927 for precipitation, and 1933 for snowfall.

STATION LOCATION

MOLINE, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Sunshine Switch	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Automatic Observing Equipment *	Remarks
NE Corner, Moline AP 4.5 miles S of Moline Post Office	10/01/26	12/27/39		41° 27'	90° 31'	589	53	3	3				3			
Administration Building Quad City Airport	12/27/39	4/03/61	1200 feet W	41° 27'	90° 31'	g582	a25	b36	c36	%27		e5	15	d4		a - 54 feet for autographic record and 62 feet for direct reading until moved to field 11/13/58. b - 5 feet to 5/31/55 and 6/7/56 to 4/16/58. c - 5 feet to 12/1/54 and 6/7/56 to 4/16/58. d - Telepsychrometer(5') 6/7/56-3/1/60. Hygro. comm. 3/1/60. e - 4 feet to 4/16/58. g - 589 feet to 3/1/60.
Terminal Building Quad City Airport	4/16/61	Present	200 feet SE	41° 27'	90° 31'	582	25	17	17	%27	i16	h16	15	4	NA	h - 5 feet to 7/22/63. i - Added 6/1/64. % - Commissioned 4/4/61.

* Type
M = AMOS
T = AUTOB

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Daniel B. Mitchell
Director, National Climatic Center

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Local Climatological Data

Annual Summary With Comparative Data

1978

MOLINE, ILLINOIS

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Narrative Climatological Summary

This area has a temperate continental climate, with a wide temperature range throughout the year. There are some intensely hot, usually humid, periods in summer and severely cold periods in winter. Maxima of 90° or higher have occured as frequently as on 55 days (1936), but in 1882 there were none. Zero or lower readings have occurred during every winter of record ranging from 37 times in 1874-75 to 1 time during 4 winters.

Freezing temperatures have occurred as late in spring as May 20 and as early in autumn as September 20. Precipitation usually is well distributed throughout the year. Normally the greatest amounts fall during the 177-day average crop growing season (April 21-October 14, inclusive). Substantial weather changes frequently occur at 3- or 4-day intervals, as a direct result of proximity to some of the most important storm tracks.

The locality is in the heart of the Corn Belt. Agricultural crops include many important staple products in addition to corn. Cattle, hogs, horses, and poultry produced in Iowa and Illinois rank high in the nation. Close to the Mississippi River there is large scale truck gardening and considerable dairying. Field production of grains and livestock attains greater development farther away from the large streams, where the countryside is rolling prairie. Damaging drouths are not common. This, together with the variety of agricultural products, has led to designating the section as the "Bread Basket" of America.

The climate is favorable for many industries as evidenced by the large number and variety of manufacturing and other enterprises which have located and developed in the community. Among these are some of the world's largest producers of agricultural machinery.

Records began in Davenport, Iowa, in May 1871, and have been continuous to date. At the Quad-City Airport, Moline, Illinois, records began in October 1926, but are not complete in the years 1935, 1936, and 1937. For a summary of data from Lock & Dam No. 15, Davenport, Iowa, please refer to IOWA CLIMATOLOGICAL DATA.

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LOCAL CLIMATOLOGICAL DATA, ANNUAL SUMMAR
1978
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noaa NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA AND INFORMATION SERVICE / NATIONAL CLIMATIC CENTER ASHEVILLE, N.C.

Meteorological Data For The Current Year

Station: MOLINE, ILLINOIS # 14923 — QUAD CITY AIRPORT — Standard time used: CENTRAL — Latitude: 41° 27' N — Longitude: 90° 31' W — Elevation (ground): 582 feet — Year: 1978

Month	Temperature °F: Averages: Daily maximum	Daily minimum	Monthly	Extremes: Highest	Date	Lowest	Date	Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Total	Greatest in 24 hrs.	Date	Snow, Ice pellets: Total	Greatest in 24 hrs.	Date	Relative humidity, pct. (Local time): Hour 00	Hour 06	Hour 12	Hour 18	Wind: Resultant: Direction	Speed m.p.h.	Average speed m.p.h.	Fastest mile: Speed m.p.h.	Direction	Date	Percent of possible sunshine	Average sky cover, tenths, sunrise to sunset	Number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperature °F: Maximum (b) 90° and above	32° and below	Minimum 32° and below	0° and below	Average station pressure mb: Elev. 594 feet m.s.l.
JAN	21.4	3.3	12.4	39	5	-10	22	1625	0	0.59	0.50	31-1	6.1	5.6	31-1	72	72	67	69	29	6.7	10.6	34	NW	26	39	5.9	10	6	15	10	2	0	2	0	27	31	20	1000.7
FEB	23.8	4.4	14.1	38	24	-12	19	1417	0	0.67	0.44	13	6.8	4.2	13	74	73	64	70	31	2.0	7.7	31	NE	13	39	6.5	8	4	16	6	2	0	1	0	27	28	13	1001.4
MAR	41.6	24.4	33.0	81	31	-7	5	986	1	0.78	0.46	24-25	6.5	3.6	24-25	76	77	59	64	35	1.5	10.0	30	NE	24	50	6.6	5	11	15	7	3	0	1	0	7	23	2	996.6
APR	61.8	39.8	50.8	81	9	31	22	423	0	3.02	1.19	9-10	T	T	2	69	77	51	52	13	0.6	11.6	34	SW	18	49	6.9	6	9	15	13	0	5	1	0	0	2	0	993.2
MAY	70.0	50.4	60.2	93	27	31	2	229	87	4.65	2.16	12-13	0.0	0.0		77	81	58	60	12	1.2	9.8	30	N	13	39	7.1	4	10	17	12	0	4	1	3	0	3	0	991.9
JUN	82.4	59.6	71.0	91	25	47	9	13	202	3.50	1.14	26	0.0	0.0		73	79	52	51	21	4.2	8.7	43	W	26	56	5.9	7	10	13	14	0	12	0	3	0	0	0	994.2
JUL	83.5	64.5	74.0	92	6	53	31	1	288	3.24	0.83	9	0.0	0.0		85	87	65	68	21	1.9	7.4	30	W	1	32	6.6	6	7	18	12	0	11	2	3	0	0	0	993.6
AUG	84.9	61.5	73.2	92	23	46	4	4	267	2.47	0.74	26-27	0.0	0.0		83	89	53	57	21	3.2	7.0	63	SW	18	50	5.2	10	12	9	7	0	7	2	6	0	0	0	995.3
SEP	82.0	56.4	69.2	95	8	40	28	59	195	3.91	2.83	17-18	0.0	0.0		77	83	48	57	21	2.7	7.4	42	W	16	64	4.4	14	9	7	7	0	4	1	7	0	0	0	995.3
OCT	62.3	40.7	51.5	82	21	30	28	415	5	1.95	0.47	4	0.0	0.0		72	76	51	63	24	4.7	9.7	35	S	4	50	5.5	10	7	14	9	0	2	0	0	0	2	0	996.3
NOV	47.6	30.7	39.2	77	4	14	30	767	0	3.32	1.25	16-17	7.1	4.0	26-27	69	73	60	67	25	1.6	10.4	42	W	17	31	6.8	7	6	17	14	3	0	0	0	3	18	0	998.6
DEC	30.4	14.9	22.7	42	18	-13	10	1305	0	3.17	0.83	30-31	21.7	9.0	30-31	73	73	66	71	27	3.9	11.8	36	W	20	29	7.1	6	6	19	12	5	1	3	0	14	31	3	995.3
YEAR	57.6	37.6	47.6	95	SEP 8	-13	OEC 10	7244	1045	31.27	2.83	SEP 17-18	48.2	9.0	OEC 30-31	75	78	58	62	25	2.0	9.3	63	SW	AUG 18	45	6.2	93	97	175	123	15	46	14	22	78	138	38	996.0

Normals, Means, And Extremes

Month	Temperatures °F: Normal: Daily maximum	Daily minimum	Monthly	Extremes: Record highest	Year	Record lowest	Year	Normal Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Normal	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year	Snow, Ice pellets: Maximum monthly	Year	Maximum in 24 hrs.	Year	Relative humidity pct. (Local time): Hour 00	Hour 06	Hour 12	Hour 18	Wind: Mean speed m.p.h.	Prevailing direction	Fastest mile: Speed m.p.h.	Direction	Year	Pct. of possible sunshine	Mean sky cover, tenths, sunrise to sunset	Mean number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperatures °F: Max. (b) 90° and above	32° and below	Min. 32° and below	0° and below	Average station pressure mb.: Elev. 594 feet m.s.l.
(a)				46		46					49		49		49		47		45		18	18	18	18	35	12	50	50		35	36	45	45	45	46	46	45	44	18	18	18	18	6
JAN	30.0	13.0	21.5	65	1950	-26	1974	1349	0	1.66	4.39	1974	0.31	1961	2.07	1960	17.7	1971	16.4	1971	72	72	65	68	10.8	WNW	56	SW	1946	49	6.5	8	7	16	9	3	*	2	0	19	29	10	997.5
FEB	34.3	17.0	25.7	71	1976	-23	1933	1100	0	1.29	2.78	1960	0.17	1933	1.90	1948	19.3	1975	10.1	1975	72	74	62	65	11.0	WNW	58	NW	1948	50	6.4	7	6	15	8	2	1	2	0	13	26	4	996.2
MAR	45.0	26.4	35.7	83	1945	-19	1960	908	0	2.57	7.43	1973	0.31	1958	2.38	1944	19.8	1972	11.0	1972	74	77	60	63	12.1	WNW	66	SW	1954	50	6.8	7	7	17	11	2	2	2	0	4	22	*	992.8
APR	61.3	39.8	50.6	91	1970	9	1975	436	0	3.82	11.30	1973	0.68	1946	5.81	1973	8.3	1970	8.2	1970	73	79	55	55	12.2	NW	73	SW	1947	53	6.6	6	9	15	11	*	5	1	*	*	7	0	993.6
MAY	72.0	50.2	61.1	104	1934	26	1966	184	63	3.92	11.43	1974	0.55	1928	3.68	1970	0.3	1935	0.3	1935	76	80	54	53	10.3	E	68	SW	1955	57	6.3	7	9	15	12	0	7	1	2	0	1	0	991.8
JUN	81.4	60.2	70.8	104	1934	39	1972	20	194	4.42	8.83	1974	1.02	1963	5.02	1967	0.0		0.0		77	81	53	54	9.2	S	77	SW	1947	64	6.0	7	11	12	10	0	8	1	6	0	0	0	992.4
JUL	85.2	63.8	74.5	105	1940	46	1971	0	298	4.58	11.39	1969	1.02	1955	5.41	1963	0.0		0.0		81	84	57	59	7.6	E	65	W	1953	70	5.3	10	12	9	9	0	8	1	8	0	0	0	994.2
AUG	83.8	62.0	72.9	106	1936	40	1934	11	255	3.37	9.31	1965	0.35	1971	4.60	1951	0.0		0.0		83	88	57	61	7.2	E	63	SW	1978	68	5.3	10	11	10	9	0	7	2	5	0	0	0	995.5
SEP	76.0	53.2	64.6	100	1939	24	1942	79	67	3.84	14.18	1970	0.49	1956	6.29	1961	0.1	1942	0.1	1942	82	87	57	66	8.1	S	66	NW	1945	63	5.2	12	8	10	9	0	4	2	2	0	*	0	995.9
OCT	66.0	42.8	54.4	92	1963	16	1952	344	16	2.69	9.41	1941	0.01	1964	4.89	1954	6.6	1967	6.5	1967	75	81	54	63	9.1	S	56	SW	1949	60	5.1	12	8	11	7	*	2	2	*	0	5	0	997.1
NOV	48.1	30.2	39.2	80	1933	-9	1976	774	0	1.87	6.47	1934	0.29	1933	2.73	1961	15.6	1974	8.5	1975	75	79	62	69	10.8	WNW	60	W	1952	43	6.7	7	8	15	8	1	1	1	0	2	18	*	996.1
DEC	34.6	16.5	26.6	69	1970	-22	1963	1190	0	1.77	4.81	1942	0.23	1929	3.38	1942	21.7	1978	9.0	1978	76	78	70	73	10.6	WNW	61	SW	1947	41	6.8	7	6	18	9	2	1	2	0	14	27	4	995.5
YR	59.8	39.8	49.8	106	AUG 1936	-26	JAN 1974	6395	893	35.80	14.18	SEP 1970	0.01	OCT 1964	6.29	SEP 1961	21.7	DEC 1978	16.4	JAN 1971	76	80	59	62	9.9	WNW	77	SW	JUN 1947	57	6.1	100	102	163	112	10	47	19	22	52	135	18	994.9

(a) Length of record, years, through the current year unless otherwise noted, based on January data.
(b) 70° and above at Alaskan stations.
* Less than one half.
T Trace.

NORMALS - Based on record for the 1941-1970 period.
DATE OF AN EXTREME - The most recent in cases of multiple occurrence.
PREVAILING WIND DIRECTION - Record through 1963.
WIND DIRECTION - Numerals indicate tens of degrees clockwise from true north. 00 indicates calm.
FASTEST MILE WIND - Speed is fastest observed 1-minute value when the direction is in tens of degrees.

Average Temperature

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1939	29.6	24.4	38.0	46.6	65.8	72.2	75.7	71.0	68.8	54.2	39.6	33.1	51.6
1940	10.0	26.2	32.3	47.8	57.8	72.6	76.9	72.1	64.3	57.0	36.0	31.5	48.7
1941	25.6	22.4	33.6	54.4	65.8	71.6	75.0	74.8	67.5	55.6	41.6	34.1	51.8
1942	22.5	24.6	39.5	55.3	60.8	71.0	75.0	71.7	63.0	53.2	39.7	21.0	49.8
1943	19.6	27.3	32.3	48.2	57.8	73.2	75.9	74.8	61.2	52.2	35.0	26.9	48.7
1944	30.1	27.4	37.6	46.4	66.2	73.6	73.8	73.4	66.2	53.4	42.5	20.2	50.5
1945	18.2	27.7	48.8	51.6	55.6	66.5	72.2	73.2	63.9	51.0	38.6	19.7	48.9
1946	25.6	29.5	48.0	53.5	57.8	70.2	74.8	69.2	64.8	57.8	40.8	31.4	52.0
1947	27.0	20.1	37.8	48.8	56.5	67.4	72.2	81.0	68.2	62.6	33.8	30.2	50.0
1948	17.5	24.4	35.6	55.2	57.8	69.0	75.1	73.6	67.6	51.1	41.3	29.0	49.8
1949	23.0	24.8	37.1	49.4	63.8	73.6	78.0	73.5	59.0	57.0	41.8	31.0	51.0
1950	25.9	24.7	37.9	43.6	62.0	69.6	71.1	68.5	64.1	59.2	33.8	19.1	47.9
1951	20.6	25.6	31.8	47.3	63.3	67.2	72.9	71.5	61.8	54.6	32.6	23.4	47.7
1952	25.1	31.4	33.5	52.1	60.6	75.7	76.4	71.1	64.7	46.6	41.4	30.5	50.7
1953	25.3	30.0	37.3	45.9	60.5	74.3	75.9	74.3	65.4	57.9	42.8	30.0	51.6
1954	23.3	36.3	34.0	53.7	56.1	74.6	76.2	72.0	67.5	53.1	40.7	29.1	51.4
1955	22.0	25.3	36.0	57.0	63.8	67.8	80.5	76.8	66.4	53.6	34.2	24.2	50.6
1956	22.7	26.9	36.1	47.1	62.6	74.0	73.2	73.3	63.4	59.0	38.4	28.9	50.5
1957	16.6	32.5	37.0	50.4	59.6	70.4	76.7	73.2	61.9	49.8	38.1	32.8	49.9
1958	22.2	16.7	35.7	50.5	62.2	66.3	71.3	73.5	64.4	56.0	42.0	22.2	48.6
1959	15.7	25.7	36.9	49.4	65.3	72.0	73.2	77.2	66.3	49.9	31.4	34.7	49.8
#1960	25.7	22.3	19.9	53.4	58.9	68.5	72.8	73.8	68.6	53.8	41.5	23.7	48.6
1961	21.1	30.7	39.3	44.3	58.1	71.9	74.2	73.9	66.1	55.4	40.8	23.0	49.9
1962	16.2	23.7	37.6	49.3	67.9	70.6	71.6	72.9	61.7	55.2	39.0	23.2	48.7
1963	9.7	17.9	41.1	52.9	60.0	73.5	74.8	70.8	64.9	64.4	43.1	13.8	48.9
1964	28.4	27.0	34.4	51.5	66.3	72.3	76.6	70.8	65.6	50.7	44.2	24.8	51.1
1965	21.4	25.7	26.9	49.2	65.9	69.6	74.9	71.1	63.5	53.6	40.7	34.5	49.8
1966	14.3	24.8	39.2	47.0	56.3	70.5	77.9	70.6	62.9	52.5	41.7	28.1	48.8
1967	26.0	18.7	39.0	51.8	56.4	70.9	71.4	67.7	62.1	52.1	36.1	28.5	48.4
1968	21.0	22.7	41.9	51.3	57.2	72.1	73.1	73.5	63.1	53.2	37.3	24.5	49.3
1969	17.9	27.9	37.2	51.6	61.7	67.1	75.0	73.7	64.9	51.7	37.9	24.3	48.8
1970	13.1	24.7	33.6	51.8	64.9	70.7	75.7	72.9	65.2	53.9	39.2	28.9	49.5
1971	14.8	25.9	34.7	50.9	58.0	76.6	70.7	71.9	68.7	59.9	40.0	31.6	50.3
1972	18.6	20.7	36.0	48.0	63.0	69.4	74.6	74.0	66.7	50.2	37.3	22.3	48.4
1973	27.1	28.7	45.4	49.7	57.6	72.3	74.9	75.1	65.7	57.3	40.4	23.7	51.5
1974	21.6	26.8	38.5	53.3	58.8	67.5	77.3	70.3	60.4	53.7	40.1	28.6	49.8
1975	24.9	25.0	36.6	45.1	63.8	72.3	75.0	75.1	60.9	56.2	45.0	30.3	50.4
1976	19.1	35.2	41.2	52.9	57.5	70.5	75.8	71.8	63.0	46.8	30.1	19.6	48.6
1977	8.2	27.1	43.6	56.6	68.9	70.0	77.5	71.0	65.5	51.2	38.7	21.7	50.0
1978	12.4	14.1	33.0	50.8	60.2	71.0	74.0	73.2	69.2	51.5	39.2	22.7	47.6
RECORD MEAN	21.5	26.3	36.2	50.3	61.1	71.2	75.2	73.1	65.1	54.0	39.0	26.6	50.0
MAX	30.1	35.0	45.4	61.1	72.1	82.2	86.2	84.1	76.6	65.5	48.1	34.5	60.1
MIN	12.9	17.6	26.9	39.5	50.1	60.3	64.1	62.0	53.3	42.5	29.9	18.7	39.8

Heating Degree Days

MOLINE, IL

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1958-59	4	21	93	269	685	1319	1523	1096	861	462	114	8	6475
#1959-60	4	1	100	467	1002	932	1212	1229	1392	376	203	13	6926
1960-61	2	1	55	348	700	1277	1355	954	789	614	242	12	6349
1961-62	1	0	121	309	722	1297	1510	1150	999	481	78	22	6690
1962-63	8	1	149	342	774	1292	1717	1315	734	370	186	15	6903
1963-64	0	16	83	108	653	1585	1129	1097	942	405	71	20	6109
1964-65	3	24	100	437	624	1241	1344	1096	1174	471	86	3	6603
1965-66	0	21	115	363	722	939	1568	1119	794	533	287	31	6492
1966-67	0	6	116	384	695	1137	1202	1289	802	404	305	10	6352
1967-68	21	33	136	424	860	1127	1354	1221	711	409	248	18	6562
1968-69	8	15	96	404	826	1247	1458	1032	1010	398	172	57	6723
1969-70	0	0	80	445	805	1253	1607	1120	967	419	118	21	6835
1970-71	0	2	92	350	764	1111	1556	1088	931	425	242	0	6561
1971-72	17	3	94	195	740	1026	1434	1280	893	504	155	25	6366
1972-73	8	7	80	459	824	1319	1170	1013	598	452	223	1	6154
1973-74	0	0	78	258	733	1274	1338	1061	812	360	235	32	6181
1974-75	0	8	180	349	739	1122	1235	1114	1058	593	117	14	6529
1975-76	9	0	162	297	594	1072	1413	855	731	385	235	2	5755
1976-77	0	5	123	569	1038	1403	1755	1059	656	286	54	15	6963
1977-78	0	5	50	420	780	1337	1625	1417	986	423	229	13	7285
1978-79	1	4	59	415	767	1305							

Cooling Degree Days

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
1969	0	0	0	1	77	130	320	276	86	41	0	0	931
1970	0	0	0	32	119	198	341	256	105	15	0	0	1066
1971	0	0	0	9	32	355	203	225	212	44	0	0	1080
1972	0	0	0	3	102	165	312	294	138	6	0	0	1020
1973	0	0	0	2	2	226	312	323	103	27	0	0	995
1974	0	0	0	17	50	113	389	180	45	3	0	0	797
1975	0	0	0	1	85	241	325	319	44	29	0	0	1044
1976	0	0	0	26	12	175	341	221	72	13	0	0	860
1977	0	0	0	44	182	173	397	199	73	0	0	0	1068
1978	0	0	1	0	87	202	288	267	195	5	0	0	1045

Precipitation

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1939	1.67	1.70	2.68	3.56	2.28	3.99	2.45	5.59	0.94	2.96	0.94	0.30	29.06
1940	1.26	0.53	1.57	3.01	1.37	1.19	2.34	4.88	1.54	2.02	1.57	1.57	22.85
1941	2.86	0.53	1.38	4.49	3.49	6.46	1.67	1.66	5.45	9.41	1.25	1.43	40.08
1942	0.78	1.08	1.39	0.92	4.06	5.73	4.18	2.80	2.95	0.92	2.99	4.81	32.61
1943	1.36	1.84	1.49	5.61	6.38	4.55	2.10	4.31	1.23	3.24	1.77	0.41	34.29
1944	0.60	1.99	5.27	5.55	4.60	6.19	2.40	2.88	1.60	1.06	2.98	1.54	36.66
1945	0.44	0.90	3.36	3.88	5.07	2.52	1.39	3.86	4.74	1.09	1.71	1.69	30.65
1946	2.53	0.28	4.64	0.68	4.10	6.42	1.47	3.91	3.47	1.65	2.49	1.43	33.07
1947	2.08	0.23	2.10	7.36	3.70	5.99	4.08	0.52	5.13	0.88	1.92	1.64	35.63
1948	0.84	2.35	3.46	1.67	2.11	2.91	8.27	2.83	3.66	1.81	2.23	2.21	34.35
1949	3.28	1.78	2.76	1.10	1.82	5.45	3.40	7.12	1.96	2.27	0.71	2.91	34.56
1950	3.56	1.76	1.09	5.87	3.01	5.11	4.41	1.87	3.85	0.61	0.73	1.01	32.88
1951	1.05	2.56	5.06	3.60	5.90	6.65	5.60	8.00	3.47	3.75	1.68	1.28	48.60
1952	1.57	0.78	3.88	1.17	2.22	7.13	2.66	3.50	0.77	0.04	2.99	1.93	28.64
1953	1.04	2.72	2.68	1.73	3.18	3.43	4.88	1.05	1.79	1.00	1.07	1.90	26.47
1954	0.34	1.69	3.13	4.58	3.58	5.10	1.98	6.67	1.59	7.43	0.75	2.02	38.86
1955	2.03	1.88	1.20	5.33	2.30	3.65	1.02	2.44	2.40	2.70	0.60	0.54	26.09
1956	0.31	1.39	0.54	2.15	2.27	1.55	4.09	3.34	0.49	0.40	2.43	1.24	20.20
1957	1.33	1.57	2.90	3.49	4.11	2.52	4.47	3.17	1.16	2.00	2.38	3.82	32.92
1958	1.26	0.49	0.31	2.53	3.96	3.77	4.62	1.09	3.00	1.75	1.17	0.50	24.45
1959	1.41	1.77	3.06	4.75	5.31	3.62	4.48	3.90	4.29	5.59	1.50	2.42	42.10
1960	3.43	2.78	1.28	4.89	3.98	5.40	3.40	3.97	3.42	4.91	1.11	0.88	39.45
1961	0.31	1.20	4.48	2.19	1.98	3.69	7.63	2.37	11.00	4.53	4.94	1.58	45.90
1962	2.08	1.84	2.42	2.44	6.10	1.48	6.73	1.95	2.90	4.15	1.21	0.55	33.85
1963	0.91	0.37	3.29	4.24	2.36	1.02	8.78	4.02	2.38	0.63	1.84	0.94	30.78
1964	1.59	0.73	4.02	6.37	2.68	3.89	5.31	2.41	3.99	0.01	3.40	1.27	35.67
1965	4.08	0.97	2.52	7.92	4.04	2.07	4.78	9.31	8.27	0.88	1.93	2.82	49.59
1966	2.01	0.89	0.85	3.96	6.39	4.25	7.74	0.77	2.80	4.38	1.12	2.52	37.68
1967	2.00	1.11	1.68	4.91	1.70	8.15	4.15	3.62	4.99	6.23	2.26	1.56	42.36
1968	0.80	0.32	1.96	3.57	2.59	3.70	3.91	2.16	5.70	1.09	3.29	2.76	31.85
1969	3.28	0.21	2.25	3.11	3.40	6.97	11.39	2.00	2.50	4.63	0.53	1.52	41.79
1970	0.54	0.57	2.62	4.66	11.07	3.25	6.27	3.61	14.18	1.75	1.25	1.95	51.72
1971	1.79	1.57	1.99	1.86	3.14	2.36	11.22	0.35	4.54	2.64	2.21	4.77	38.44
1972	1.19	1.24	3.73	5.19	4.24	8.66	3.79	8.20	3.29	2.39	2.75	1.98	46.65
1973	2.53	1.94	7.43	11.30	6.96	6.58	2.63	2.30	6.74	3.06	1.15	3.74	56.36
1974	4.39	1.57	2.94	5.08	11.43	8.83	1.73	3.37	1.08	1.99	2.59	1.83	46.83
1975	1.50	1.75	3.30	2.88	3.23	3.50	2.71	3.23	1.99	0.90	2.98	0.98	28.95
1976	0.88	1.11	3.67	4.21	4.13	2.02	3.34	0.60	1.89	2.13	0.65	0.34	24.97
1977	0.87	0.62	4.61	1.57	2.66	5.18	6.04	6.98	4.80	4.09	2.78	1.76	41.96
1978	0.59	0.67	0.78	3.02	4.65	3.50	3.24	2.47	3.91	1.95	3.32	3.17	31.27
RECORD MEAN	1.61	1.26	2.61	3.71	4.04	4.43	4.22	3.44	3.82	2.63	2.08	1.70	35.55

Snowfall

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1939-40	0.0	0.0	0.0	T	0.0	T	12.6	3.4	3.1	0.0	0.0	0.0	19.1
1940-41	0.0	0.0	0.0	0.0	2.3	1.4	14.5	3.9	11.5	0.0	0.0	0.0	33.6
1941-42	0.0	0.0	0.0	0.0	1.3	4.4	4.8	6.1	0.8	0.0	0.0	0.0	17.4
1942-43	0.0	0.0	0.1	T	1.6	7.6	11.1	2.5	5.3	T	0.0	0.0	28.2
1943-44	0.0	0.0	0.0	0.0	T	0.4	T	12.6	4.3	T	T	0.0	17.3
1944-45	0.0	0.0	0.0	0.0	0.3	13.9	5.8	4.3	0.7	T	T	0.0	25.0
1945-46	0.0	0.0	0.0	0.0	1.0	11.4	2.5	4.4	2.8	T	0.0	0.0	22.1
1946-47	0.0	0.0	0.0	T	0.0	5.3	8.5	4.3	7.2	T	0.0	0.0	25.3
1947-48	0.0	0.0	0.0	0.0	7.7	1.8	3.8	3.0	8.0	0.0	0.0	0.0	24.3
1948-49	0.0	0.0	0.0	0.0	T	6.2	5.3	2.5	0.9	1.1	0.0	0.0	16.0
1949-50	0.0	0.0	0.0	0.0	0.5	2.3	1.7	7.9	2.5	0.4	0.0	0.0	15.3
1950-51	0.0	0.0	0.0	0.0	2.1	7.3	7.1	4.9	17.0	1.4	0.0	0.0	39.8
1951-52	0.0	0.0	0.0	T	3.4	16.7	4.7	5.9	15.2	T	0.0	0.0	45.9
1952-53	0.0	0.0	0.0	0.0	T	2.5	12.1	6.2	7.1	0.4	0.0	0.0	28.3
1953-54	0.0	0.0	0.0	0.0	1.4	7.8	1.4	4.9	2.2	0.0	T	0.0	17.7
1954-55	0.0	0.0	0.0	T	3.7	16.2	11.2	8.1	8.8	0.0	0.0	0.0	46.0
1955-56	0.0	0.0	0.0	T	2.0	2.9	2.2	7.5	0.7	0.3	0.0	0.0	15.6
1956-57	0.0	0.0	0.0	0.0	2.1	6.5	11.8	0.7	6.9	6.5	0.0	0.0	34.5
1957-58	0.0	0.0	0.0	0.0	0.3	6.4	14.0	1.7	2.0	T	0.0	0.0	24.4
1958-59	0.0	0.0	0.0	0.0	0.9	8.1	15.1	3.6	13.9	1.7	0.0	0.0	43.3
1959-60	0.0	0.0	0.0	T	9.1	9.9	8.5	19.3	14.7	T	T	0.0	61.5
1960-61	0.0	0.0	0.0	0.0	T	5.5	3.4	2.5	2.4	2.5	0.0	0.0	16.3
1961-62	0.0	0.0	0.0	0.0	T	13.6	11.2	15.8	7.1	0.2	0.0	0.0	47.9
1962-63	0.0	0.0	0.0	0.2	T	3.1	14.7	5.8	7.3	0.0	0.0	0.0	31.1
1963-64	0.0	0.0	0.0	0.0	T	9.7	5.3	5.5	13.9	T	0.0	0.0	34.4
1964-65	0.0	0.0	0.0	0.0	2.1	11.7	10.2	7.4	16.2	0.0	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.3	5.7	6.0	0.8	0.7	0.1	T	0.0	13.6
1966-67	0.0	0.0	0.0	0.0	T	7.2	14.4	13.2	2.2	1.1	0.0	0.0	38.1
1967-68	0.0	0.0	0.0	6.6	0.3	3.2	8.6	2.8	1.1	T	0.0	0.0	22.6
1968-69	0.0	0.0	0.0	T	5.9	5.4	6.2	0.9	5.6	0.0	T	0.0	24.0
1969-70	0.0	0.0	0.0	0.0	1.5	15.4	7.2	6.1	12.7	8.3	0.0	0.0	51.2
1970-71	0.0	0.0	0.0	0.0	0.2	2.2	17.7	2.6	7.8	T	0.0	0.0	30.5
1971-72	0.0	0.0	0.0	0.0	5.9	0.3	11.8	13.7	19.8	2.6	0.0	0.0	54.1
1972-73	0.0	0.0	0.0	2.0	6.7	6.6	0.4	8.6	0.5	0.9	0.0	0.0	25.7
1973-74	0.0	0.0	0.0	0.0	T	11.4	12.7	7.4	3.0	0.6	0.0	0.0	35.1
1974-75	0.0	0.0	0.0	0.0	15.6	8.8	7.6	19.3	12.2	6.2	0.0	0.0	69.7
1975-76	0.0	0.0	0.0	0.0	9.9	2.5	8.6	0.1	0.6	0.0	T	0.0	21.7
1976-77	0.0	0.0	0.0	0.0	7.7	4.1	12.3	2.5	10.8	1.0	0.0	0.0	38.4
1977-78	0.0	0.0	0.0	0.0	4.8	20.8	6.1	6.8	6.5	T	0.0	0.0	45.0
1978-79	0.0	0.0	0.0	0.0	7.1	21.7							
RECORD MEAN	0.0	0.0	T	0.2	2.5	7.2	7.7	5.7	6.6	0.8	T	0.0	30.7

# Indicates a station move or relocation of instruments. See Station Location table.

Record mean values above are means through the current year for the period beginning in 1930 for temperature, 1927 for precipitation, and 1933 for snowfall.

STATION LOCATION

MOLINE, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Telepsychrometer	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer		Remarks
NE Corner, Moline AP 4.5 miles S of Moline Post Office	10/01/26	12/27/39		41° 27'	90° 31'	589	53	3	3				3			
Administration Building Quad City Airport	12/27/39	4/03/61	1200 feet W	41° 27'	90° 31'	g582	a25	b36	c36	d5		e5	15	f4		a - 54 feet for autographic record and 62 feet for direct reading until moved to field 11/13/58. b - 5 feet to 5/31/55 and 6/7/56 to 4/16/58. c - 5 feet to 12/1/54 and 6/7/56 to 4/16/58. d - Added 6/7/56; removed 3/1/60. e - 4 feet to 4/16/58. f - Commissioned 3/1/60. g - 589 feet to 3/1/60.
Terminal Building Quad City Airport	4/16/61	Present	200 feet SE	41° 27'	90° 31'	582	25	17	17		i16	h16	15	4		h - 5 feet to 7/22/63. i - Added 6/1/64.

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I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

Daniel B. Mitchell
Director, National Climatic Center

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al Climatological Data

Map

Summary With Comparative Data

1977

MOLINE, ILLINOIS

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Narrative Climatological Summary

This area has a temperate continental climate, with a wide temperature range throughout the year. There are some intensely hot, usually humid, periods in summer and severely cold periods in winter. Maxima of 90° or higher have occured as frequently as on 55 days (1936), but in 1882 there were none. Zero or lower readings have occurred during every winter of record ranging from 37 times in 1874-75 to 1 time during 4 winters.

Freezing temperatures have occurred as late in spring as May 20 and as early in autumn as September 20. Precipitation usually is well distributed throughout the year. Normally the greatest amounts fall during the 177-day average crop growing season (April 21-October 14, inclusive). Substantial weather changes frequently occur at 3- or 4-day intervals, as a direct result of proximity to some of the most important storm tracks.

The locality is in the heart of the Corn Belt. Agricultural crops include many important staple products in addition to corn. Cattle, hogs, horses, and poultry produced in Iowa and Illinois rank high in the nation. Close to the Mississippi River there is large scale truck gardening and considerable dairying. Field production of grains and livestock attains greater development farther away from the large streams, where the countryside is rolling prairie. Damaging drouths are not common. This, together with the variety of agricultural products, has led to designating the section as the "Bread Basket" of America.

The climate is favorable for many industries as evidenced by the large number and variety of manufacturing and other enterprises which have located and developed in the community. Among these are some of the world's largest producers of agricultural machinery.

Records began in Davenport, Iowa, in May 1871, and have been continuous to date. At the Quad-City Airport, Moline, Illinois, records began in October 1926, but are not complete in the years 1935, 1936, and 1937. For a summary of data from Lock & Dam No. 15, Davenport, Iowa, please refer to IOWA CLIMATOLOGICAL DATA.

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LOCAL CLIMATOLOGICAL DATA, ANNUAL SUMMAR
1977
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noaa NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA SERVICE / NATIONAL CLIMATIC CENTER ASHEVILLE, N.C.

Meteorological Data For The Current Year

Station: MOLINE, ILLINOIS # 14923 — QUAD CITY AIRPORT — Standard time used: CENTRAL — Latitude: 41° 27′ N — Longitude: 90° 31′ W — Elevation (ground): 582 feet — Year: 1977

Month	Temperature °F: Averages: Daily maximum	Daily minimum	Monthly	Extremes: Highest	Date	Lowest	Date	Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Total	Greatest in 24 hrs.	Date	Snow, Ice pellets: Total	Greatest in 24 hrs.	Date	Relative humidity, pct. (Local time): Hour 00	Hour 06	Hour 12	Hour 18	Wind: Resultant: Direction	Speed m.p.h.	Average speed m.p.h.	Fastest mile: Speed m.p.h.	Direction	Date	Percent of possible sunshine	Average sky cover, tenths, sunrise to sunset	Number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperature °F: Maximum (b) 90° and above	32° and below	Minimum 32° and below	0° and below	Average station pressure mb Elev. 594 feet m.s.l.
JAN	17.1	-.8	8.2	30	24	-22	17	1755	0	0.87	0.18	9-10	12.3	2.8	19-20	64	65	57	63	28	8.9	12.8	38	NW	28	64	6.0	10	6	15	12	7	0	0	0	31	31	17	997.3
FEB	36.8	17.3	27.1	63	22	-17	7	1059	0	0.62	0.42	22-23	2.5	1.2	2	64	65	53	56	27	6.5	11.7	32	SW	24	62	6.0	8	7	13	4	2	0	1	0	10	24	5	993.9
MAR	52.8	34.4	43.6	75	26	14	22	656	0	4.61	1.17	11-12	10.8	5.8	21	71	74	57	59	20	4.8	13.7	36	SE	28	46	5.9	10	7	14	15	2	0	2	0	0	14	0	990.5
APR	69.0	44.2	56.6	87	16	27	29	286	44	1.57	0.61	20-21	1.0	1.0	5	67	75	48	50	22	2.8	12.3	39	SW	2	44	6.1	6	11	13	8	1	4	0	0	0	6	0	994.9
MAY	81.1	56.7	68.9	91	26	34	10	54	182	2.66	1.31	16-17	0.0	0.0		74	81	52	54	17	3.0	8.8	42	NW	31	55	5.2	8	14	9	10	0	7	0	3	0	0	0	994.2
JUN	82.1	57.9	70.0	91	27	43	9	15	173	5.18	3.03	30	0.0	0.0		68	71	50	49	19	1.1	9.1	37	N	7	50	6.4	4	13	13	8	0	8	0	4	0	0	0	992.9
JUL	88.5	66.5	77.5	98	15	52	27	0	397	6.04	1.56	8	0.0	0.0		71	75	55	55	20	2.7	8.9	47	SE	10	66	4.3	15	8	8	10	0	9	1	13	0	0	0	995.3
AUG	80.1	61.8	71.0	91	27	51	18	5	199	6.98	2.00	8	0.0	0.0		83	89	68	72	21	3.0	8.4	32	NW	8	38	6.8	6	10	15	15	0	13	2	2	0	0	0	994.2
SEP	75.4	55.6	65.5	86	8	45	28	50	73	4.80	1.73	17-18	0.0	0.0		83	88	65	72	22	1.3	8.1	33	NE	30	39	6.5	8	5	17	13	0	7	3	0	0	0	0	993.2
OCT	61.2	41.1	51.2	77	21	29	13	420	0	4.09	1.45	24-25	0.0	0.0		75	78	62	69	26	1.3	10.2	27	NW	11	43	6.0	10	7	14	8	0	2	1	0	0	3	0	996.6
NOV	46.7	30.7	38.7	70	3	-6	26	780	0	2.78	1.28	1	4.8	2.4	24-25	73	76	64	67	26	2.3	11.6	31	W	10	31	7.2	5	6	19	13	2	1	2	0	5	17	2	995.3
DEC	28.9	14.5	21.7	52	17	-9	10	1337	0	1.76	0.44	31	20.8	5.0	31	70	71	66	68	26	5.4	12.1	36	W	9	23	7.1	5	8	18	8	6	0	2	0	17	28	6	992.6
YEAR	60.0	40.0	50.0	98	JUL 15	-22	JAN 17	6417	1068	41.96	3.03	JUN 30	52.2	5.8	MAR 21	72	76	58	61	24	2.9	10.6	47	SE	JUL 10	47	6.1	95	102	168	124	20	51	14	22	63	123	30	994.2

Normals, Means, And Extremes

Month	Temperatures °F: Normal: Daily maximum	Daily minimum	Monthly	Extremes: Record highest	Year	Record lowest	Year	Normal Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Normal	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year	Snow, Ice pellets: Maximum monthly	Year	Maximum in 24 hrs.	Year	Relative humidity pct. (Local time): Hour 00	Hour 06	Hour 12	Hour 18	Wind: Mean speed m.p.h.	Prevailing direction	Fastest mile: Speed m.p.h.	Direction	Year	Pct. of possible sunshine	Mean sky cover, tenths, sunrise to sunset	Mean number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperatures °F: Max. (b) 90° and above	32° and below	Min. 32° and below	0° and below	Average station pressure mb. Elev. 594 feet m.s.l.
(a)				45		45					48		48		48		46		44		17	17	17	17	34	12	49	49		34	35	44	44	44	45	45	44	43	17	17	17	17	5
J	30.0	13.0	21.5	65	1950	-26	1974	1349	0	1.66	4.39	1974	0.31	1961	2.07	1960	17.7	1971	16.4	1971	72	72	65	68	10.8	WNW	56	SW	1946	49	6.5	8	7	16	9	3	*	2	0	19	29	9	996.8
F	34.3	17.0	25.7	71	1976	-23	1933	1100	0	1.29	2.78	1960	0.17	1933	1.90	1948	19.3	1975	10.1	1975	72	74	62	65	11.1	WNW	58	NW	1948	50	6.4	7	6	15	8	2	1	2	0	12	26	3	995.1
M	45.0	26.4	35.7	83	1945	-19	1960	908	0	2.57	7.43	1973	0.31	1958	2.38	1944	19.8	1972	11.0	1972	74	77	60	62	12.1	WNW	66	SW	1954	50	6.8	7	7	17	11	2	2	2	0	4	21	*	992.1
A	61.3	39.8	50.6	91	1970	9	1975	436	0	3.82	11.30	1973	0.68	1946	5.81	1973	8.3	1970	8.2	1970	73	79	55	55	12.2	NW	73	SW	1947	53	6.6	6	9	15	11	*	5	1	*	*	7	0	993.7
M	72.0	50.2	61.1	104	1934	26	1966	184	63	3.92	11.43	1974	0.55	1928	3.68	1970	0.3	1935	0.3	1935	76	80	53	53	10.4	E	68	SW	1955	58	6.3	8	9	14	12	0	7	1	1	0	1	0	991.8
J	81.4	60.2	70.8	104	1934	39	1972	20	194	4.42	8.83	1974	1.02	1963	5.02	1967	0.0		0.0		77	81	53	54	9.2	S	77	SW	1947	64	6.0	7	11	12	10	0	8	1	6	0	0	0	992.0
J	85.2	63.8	74.5	105	1940	46	1971	0	298	4.58	11.39	1969	1.02	1955	5.41	1963	0.0		0.0		81	84	56	58	7.6	E	65	W	1953	71	5.3	10	12	9	9	0	8	1	8	0	0	0	994.3
A	83.8	62.0	72.9	106	1936	40	1934	11	255	3.37	9.31	1965	0.35	1971	4.60	1951	0.0		0.0		83	88	57	61	7.2	E	61	SW	1931	68	5.3	10	11	10	9	0	7	2	5	0	0	0	995.5
S	76.0	53.2	64.6	100	1939	24	1942	79	67	3.84	14.18	1970	0.49	1956	6.29	1961	0.1	1942	0.1	1942	83	87	58	67	8.1	S	66	NW	1945	63	5.2	12	8	10	9	0	5	2	1	0	*	0	996.0
O	66.0	42.8	54.4	92	1963	16	1952	344	16	2.69	9.41	1941	0.01	1964	4.89	1954	6.6	1967	6.5	1967	76	81	54	63	9.1	S	56	SW	1949	61	5.1	12	8	11	7	*	2	2	*	0	5	0	997.2
N	48.1	30.2	39.2	80	1933	-9	1976	774	0	1.87	6.47	1934	0.29	1933	2.73	1961	15.6	1974	8.5	1975	76	79	62	69	10.8	WNW	60	W	1952	44	6.7	7	8	15	8	1	1	1	0	2	18	*	995.6
D	34.6	18.5	26.6	69	1970	-22	1963	1190	0	1.77	4.81	1942	0.23	1929	3.38	1942	20.8	1977	8.4	1954	77	78	70	74	10.6	WNW	61	SW	1947	41	6.8	7	6	18	9	2	1	2	0	14	27	4	995.5
YR	59.8	39.8	49.8	106	AUG 1936	-26	JAN 1974	6395	893	35.80	14.18	SEP 1970	0.01	OCT 1964	6.29	SEP 1961	20.8	DEC 1977	16.4	JAN 1971	77	80	59	62	9.9	WNW	77	SW	JUN 1947	57	6.1	101	102	162	112	10	47	19	22	50	135	17	994.6

(a) Length of record, years, through the current year unless otherwise noted, based on January data.
(b) 70° and above at Alaskan stations.
* Less than one half.
T Trace.

NORMALS - Based on record for the 1941-1970 period.
DATE OF AN EXTREME - The most recent in cases of multiple occurrence.
PREVAILING WIND DIRECTION - Record through 1963.
WIND DIRECTION - Numerals indicate tens of degrees clockwise from true north. 00 indicates calm.
FASTEST MILE WIND - Speed is fastest observed 1-minute value when the direction is in tens of degrees.

Average Temperature

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1938	22.4	34.4	44.8	52.4	61.4	69.0	77.0	76.3	67.5	58.6	40.4	27.0	52.6
1939	29.6	24.4	38.0	46.6	65.8	72.2	75.7	71.0	68.8	54.2	39.6	33.1	51.6
1940	10.0	26.2	32.3	47.8	57.8	72.6	76.9	72.1	64.3	57.0	36.0	31.5	48.7
1941	25.6	22.4	33.6	54.4	65.8	71.6	75.0	74.8	67.5	55.6	41.6	34.1	51.8
1942	22.5	24.6	39.5	55.3	60.8	71.0	75.0	71.7	63.0	53.2	39.7	21.0	49.8
1943	19.6	27.3	32.3	48.2	57.8	73.2	75.9	74.8	61.2	52.2	35.0	26.9	48.7
1944	30.1	27.4	32.6	46.4	66.2	73.6	73.8	73.4	66.2	53.4	42.5	20.2	50.5
1945	18.2	27.7	48.8	51.6	55.6	66.5	72.2	73.2	63.9	51.0	38.6	19.7	48.9
1946	25.6	29.5	48.0	53.5	57.8	70.2	74.8	69.2	64.8	57.8	40.8	31.4	52.0
1947	27.0	20.1	32.5	48.8	56.5	67.4	72.2	81.0	68.2	62.6	33.8	30.2	50.0
1948	17.5	24.4	35.6	55.2	57.8	69.0	75.1	73.6	67.6	51.1	41.3	29.0	49.8
1949	23.0	24.8	37.1	49.4	63.8	73.6	78.0	73.5	59.0	57.0	41.8	31.0	51.0
1950	25.9	24.7	32.9	43.6	62.0	69.6	71.1	68.5	64.1	59.2	33.8	19.1	47.9
1951	20.6	25.6	31.8	47.3	63.3	67.2	72.9	71.5	61.8	54.6	32.6	23.4	47.7
1952	25.1	31.4	33.5	52.1	60.4	75.7	76.4	71.1	64.7	46.6	41.4	30.5	50.7
1953	25.3	30.0	37.3	45.9	60.5	74.3	75.9	74.3	65.4	57.9	42.8	30.0	51.6
1954	23.3	36.3	34.0	53.7	56.1	74.6	76.2	72.0	67.5	53.1	40.7	29.1	51.4
1955	22.0	25.3	36.0	57.0	63.[illegible]	67.8	80.5	76.8	66.4	53.6	34.2	24.2	50.6
1956	22.7	26.9	36.1	47.1	62.6	74.0	73.2	73.3	63.4	59.0	38.4	28.9	50.5
1957	16.6	32.5	37.0	50.4	59.6	70.4	76.7	73.2	61.9	49.8	38.1	32.8	49.9
1958	22.2	16.7	35.7	50.5	62.2	66.3	71.3	73.5	64.4	56.0	42.0	22.2	48.6
1959	15.7	25.7	36.9	49.4	65.3	72.0	73.2	77.2	66.3	49.9	31.4	34.7	49.8
#1960	25.7	22.3	19.9	53.4	58.9	68.5	72.8	73.8	68.6	53.8	41.5	23.7	48.6
1961	21.1	30.7	39.3	44.3	58.1	71.9	74.2	73.9	66.1	55.4	40.8	23.0	49.9
1962	16.2	23.7	32.6	49.3	67.9	70.6	71.6	72.9	61.7	55.2	39.0	23.2	48.7
1963	9.7	17.9	41.1	52.9	60.0	73.5	74.8	70.8	64.9	64.4	43.1	13.8	48.9
1964	28.4	27.0	34.4	51.5	66.3	72.3	76.6	70.8	65.6	50.7	44.2	24.8	51.1
1965	21.4	25.7	26.9	49.2	65.9	69.6	74.9	71.1	63.5	53.6	40.7	34.5	49.8
1966	14.3	24.8	39.2	47.0	56.3	70.5	77.9	70.6	62.9	52.5	41.7	28.1	48.8
1967	26.0	18.7	39.0	51.6	56.4	70.9	71.4	67.7	62.1	52.1	36.1	28.5	48.4
1968	21.0	22.7	41.9	51.3	57.2	72.1	73.1	73.5	63.1	53.2	37.3	24.5	49.3
1969	17.9	27.9	32.2	51.6	61.7	67.1	75.0	73.7	64.9	51.7	37.9	24.3	48.8
1970	13.1	24.7	33.6	51.8	64.9	70.7	75.7	72.9	65.2	53.9	39.2	28.9	49.5
1971	14.8	25.9	34.7	50.9	58.0	76.6	70.7	71.9	68.7	59.9	40.0	31.6	50.3
1972	18.6	20.7	36.0	48.0	63.0	69.4	74.6	74.0	66.7	50.2	37.3	22.3	48.4
1973	27.1	28.7	45.4	49.7	57.6	72.3	74.9	75.1	65.7	57.3	40.4	23.7	51.5
1974	21.6	26.8	38.5	53.3	58.8	67.5	77.3	70.3	60.4	53.7	40.1	28.6	49.8
1975	24.9	25.0	30.6	45.1	63.8	72.3	75.0	75.1	60.9	56.2	45.0	30.3	50.4
1976	19.1	35.2	41.2	52.9	57.5	70.5	75.8	71.8	63.0	46.8	30.1	19.6	48.6
1977	8.2	27.1	43.6	56.6	68.9	70.0	77.5	71.0	65.5	51.2	38.7	21.7	50.0
RECORD MEAN	21.7	26.6	36.3	50.3	61.2	71.3	75.2	73.1	65.0	54.1	39.0	26.7	50.0
MAX	30.2	35.3	45.5	61.1	72.2	82.2	86.2	84.1	76.4	65.6	48.1	34.6	60.1
MIN	13.1	17.9	27.0	39.5	50.1	60.3	64.1	62.1	53.5	42.6	29.9	18.7	39.9

Heating Degree Days

MOLINE, IL

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1957-58	0	2	136	467	800	989	1319	1345	898	435	125	41	6557
1958-59	4	21	93	289	685	1319	1523	1096	861	462	114	8	6475
#1959-60	4	1	100	462	1002	932	1212	1229	1392	376	203	13	6926
1960-61	2	1	55	348	700	1277	1355	954	789	614	242	12	6349
1961-62	1	0	121	309	722	1297	1510	1150	999	481	78	22	6690
1962-63	8	1	149	342	774	1292	1717	1315	734	370	186	15	6903
1963-64	0	16	83	108	653	1585	1129	1097	942	405	71	20	6109
1964-65	3	24	100	437	624	1241	1344	1096	1174	471	86	3	6603
1965-66	0	21	115	363	722	939	1568	1119	794	533	287	31	6492
1966-67	0	6	116	386	695	1137	1202	1289	802	404	305	10	6352
1967-68	21	33	136	424	860	1127	1354	1221	711	409	248	18	6562
1968-69	8	15	96	404	826	1247	1458	1032	1010	398	172	57	6723
1969-70	0	0	80	445	805	1253	1607	1120	967	419	118	21	6835
1970-71	0	2	92	350	764	1111	1556	1088	931	425	242	0	6561
1971-72	17	3	94	195	740	1026	1434	1280	893	504	155	25	6366
1972-73	8	7	80	459	824	1319	1170	1013	598	452	223	1	6154
1973-74	0	0	78	258	733	1274	1338	1061	812	360	235	32	6181
1974-75	0	8	180	349	739	1122	1235	1114	1058	593	117	14	6529
1975-76	9	0	162	297	594	1072	1413	855	731	385	235	2	5755
1976-77	0	5	123	569	1038	1403	1755	1059	656	286	54	15	6963
1977-78	0	5	50	420	780	1337							

Cooling Degree Days

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
1969	0	0	0	1	77	130	320	276	86	41	0	0	931
1970	0	0	0	32	119	198	341	256	105	15	0	0	1066
1971	0	0	0	9	32	355	203	225	212	44	0	0	1080
1972	0	0	0	3	102	165	312	294	138	6	0	0	1020
1973	0	0	0	2	2	226	312	323	103	27	0	0	995
1974	0	0	0	17	50	113	389	180	45	3	0	0	797
1975	0	0	0	1	85	241	325	319	44	29	0	0	1044
1976	0	0	0	26	12	175	341	221	72	13	0	0	860
1977	0	0	0	44	182	173	397	199	73	0	0	0	1068

Precipitation

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1938	2.54	1.68	2.94	3.24	6.78	4.63	5.81	3.49	6.84	1.52	2.45	0.88	42.80
1939	1.67	1.70	2.68	3.56	2.28	3.99	2.45	5.59	0.94	2.96	0.94	0.30	29.06
1940	1.26	0.53	1.57	3.01	1.37	1.19	2.34	4.88	1.54	2.02	1.57	1.57	22.85
1941	2.86	0.53	1.38	4.49	3.49	6.46	1.67	1.66	5.45	9.41	1.25	1.43	40.08
1942	0.78	1.08	1.39	0.92	4.06	5.73	4.18	2.80	2.95	0.92	2.99	4.81	32.61
1943	1.36	1.84	1.49	5.61	6.38	4.55	2.10	4.31	1.23	3.24	1.77	0.41	34.29
1944	0.60	1.99	5.27	5.55	4.60	6.19	2.40	2.88	1.60	1.06	2.98	1.54	36.66
1945	0.44	0.90	3.36	3.88	5.07	2.52	1.39	3.86	4.74	1.09	1.71	1.69	30.65
1946	2.53	0.28	4.64	0.68	4.10	6.42	1.47	3.91	3.47	1.65	2.49	1.43	33.07
1947	2.08	0.23	2.10	7.36	3.70	5.99	4.08	0.52	5.13	0.88	1.92	1.64	35.63
1948	0.84	2.35	3.46	1.67	2.11	2.91	8.27	2.83	3.66	1.81	2.23	2.21	34.35
1949	3.28	1.78	2.76	1.10	1.82	5.45	3.40	7.12	1.96	2.27	0.71	2.91	34.56
1950	3.56	1.76	1.09	5.87	3.01	5.11	4.41	1.87	3.85	0.61	0.73	1.01	32.88
1951	1.05	2.56	5.06	3.60	5.90	6.65	5.60	8.00	3.47	3.75	1.68	1.28	48.60
1952	1.57	0.78	3.88	1.17	2.22	7.13	2.66	3.50	0.77	0.04	2.99	1.93	28.64
1953	1.04	2.72	2.68	1.73	3.18	3.43	4.88	1.05	1.79	1.00	1.07	1.90	26.47
1954	0.34	1.69	3.13	4.58	3.58	5.10	1.98	6.67	1.59	7.43	0.75	2.02	38.86
1955	2.03	1.88	1.20	5.33	2.30	3.65	1.02	2.44	2.40	2.70	0.60	0.54	26.09
1956	0.31	1.39	0.54	2.15	2.27	1.55	4.09	3.34	0.49	0.40	2.43	1.24	20.20
1957	1.33	1.57	2.90	3.49	4.11	2.52	4.47	3.17	1.16	2.00	2.38	3.82	32.92
1958	1.26	0.49	0.31	2.53	3.96	3.77	4.62	1.09	3.00	1.75	1.17	0.50	24.45
1959	1.41	1.77	3.06	4.75	5.31	3.62	4.48	3.90	4.29	5.59	1.50	2.42	42.10
1960	3.43	2.78	1.28	4.89	3.98	5.40	3.40	3.97	3.42	4.91	1.11	0.88	39.45
1961	0.31	1.20	4.48	2.19	1.98	3.69	7.63	2.37	11.00	4.53	4.94	1.58	45.90
1962	2.08	1.84	2.42	2.44	6.10	1.48	6.73	1.95	2.90	4.15	1.21	0.55	33.85
1963	0.91	0.37	3.29	4.24	2.36	1.02	8.78	4.02	2.38	0.63	1.84	0.94	30.78
1964	1.59	0.73	4.02	6.37	2.68	3.89	5.31	2.41	3.99	0.01	3.40	1.27	35.67
1965	4.08	0.97	2.52	7.92	4.04	2.07	4.78	9.31	8.27	0.88	1.93	2.82	49.59
1966	2.01	0.89	0.85	3.96	6.39	4.25	7.74	0.77	2.80	4.38	1.12	2.52	37.68
1967	2.00	1.11	1.68	4.91	1.70	8.15	4.15	3.62	4.99	6.23	2.26	1.56	42.36
1968	0.80	0.32	1.96	3.57	2.59	3.70	3.91	2.16	5.70	1.09	3.29	2.76	31.85
1969	3.28	0.21	2.25	3.11	3.40	6.97	11.39	2.00	2.50	4.63	0.53	1.52	41.79
1970	0.54	0.57	2.62	4.66	11.07	3.25	6.27	3.61	14.18	1.75	1.25	1.95	51.72
1971	1.79	1.57	1.99	1.86	3.14	2.36	11.22	0.35	4.54	2.64	2.21	4.77	38.44
1972	1.19	1.24	3.73	5.19	4.24	8.66	3.79	8.20	3.29	2.39	2.75	1.98	46.65
1973	2.53	1.94	7.43	11.30	6.96	6.58	2.63	2.30	6.74	3.06	1.15	3.74	56.36
1974	4.39	1.57	2.94	5.08	11.43	8.83	1.73	3.37	1.08	1.99	2.59	1.83	46.83
1975	1.50	1.75	3.30	2.88	3.23	3.50	2.71	3.23	1.99	0.90	2.98	0.98	28.95
1976	0.88	1.11	3.67	4.21	4.13	2.02	3.34	0.60	1.89	2.13	0.65	0.34	24.97
1977	0.87	0.62	4.61	1.57	2.66	5.18	6.04	6.98	4.80	4.09	2.78	1.76	41.96
RECORD MEAN	1.63	1.27	2.65	3.73	4.02	4.45	4.24	3.46	3.81	2.64	2.06	1.67	35.63

Snowfall

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1938-39	0.0	0.0	0.0	0.1	0.4	3.1	11.8	6.1	2.5	T	0.0	0.0	24.0
1939-40	0.0	0.0	0.0	T	0.0	T	12.6	3.4	3.1	0.0	0.0	0.0	19.1
1940-41	0.0	0.0	0.0	0.0	2.3	1.4	14.5	3.9	11.5	0.0	0.0	0.0	33.6
1941-42	0.0	0.0	0.0	0.0	1.3	4.4	4.8	6.1	0.8	0.0	0.0	0.0	17.4
1942-43	0.0	0.0	0.1	T	1.6	7.6	11.1	2.5	5.3	T	0.0	0.0	28.2
1943-44	0.0	0.0	0.0	0.0	T	0.4	T	12.6	4.3	T	T	0.0	17.3
1944-45	0.0	0.0	0.0	0.0	0.3	13.9	5.8	4.3	0.7	T	T	0.0	25.0
1945-46	0.0	0.0	0.0	0.0	1.0	11.4	2.5	4.4	2.8	T	0.0	0.0	22.1
1946-47	0.0	0.0	0.0	T	0.0	5.3	8.5	4.3	7.2	T	0.0	0.0	25.3
1947-48	0.0	0.0	0.0	0.0	7.7	1.8	3.8	3.0	8.0	0.0	0.0	0.0	24.3
1948-49	0.0	0.0	0.0	0.0	T	6.2	5.3	2.5	0.9	1.1	0.0	0.0	16.0
1949-50	0.0	0.0	0.0	0.0	0.5	2.3	1.7	7.9	2.5	0.4	0.0	0.0	15.3
1950-51	0.0	0.0	0.0	0.0	2.1	7.3	7.1	4.9	17.0	1.4	0.0	0.0	39.8
1951-52	0.0	0.0	0.0	T	3.4	16.7	4.7	5.9	15.2	T	0.0	0.0	45.9
1952-53	0.0	0.0	0.0	0.0	T	2.5	12.1	6.2	7.1	0.4	0.0	0.0	28.3
1953-54	0.0	0.0	0.0	0.0	1.4	7.8	1.4	4.9	2.2	0.0	T	0.0	17.7
1954-55	0.0	0.0	0.0	T	3.7	16.2	11.2	6.1	8.8	0.0	0.0	0.0	46.0
1955-56	0.0	0.0	0.0	T	2.0	2.9	2.2	7.5	0.7	0.3	0.0	0.0	15.6
1956-57	0.0	0.0	0.0	0.0	2.1	6.5	11.8	0.7	6.9	6.5	0.0	0.0	34.5
1957-58	0.0	0.0	0.0	0.0	0.3	6.4	14.0	1.7	2.0	T	0.0	0.0	24.4
1958-59	0.0	0.0	0.0	0.0	0.9	8.1	15.1	3.6	13.9	1.7	0.0	0.0	43.3
1959-60	0.0	0.0	0.0	T	9.1	9.9	8.5	19.3	14.7	T	T	0.0	61.5
1960-61	0.0	0.0	0.0	0.0	T	5.5	3.4	2.5	2.4	2.5	0.0	0.0	16.3
1961-62	0.0	0.0	0.0	0.0	T	13.6	11.2	15.8	7.1	0.2	0.0	0.0	47.9
1962-63	0.0	0.0	0.0	0.2	T	3.1	14.7	5.8	7.3	0.0	0.0	0.0	31.1
1963-64	0.0	0.0	0.0	0.0	T	9.7	5.3	5.5	13.9	T	0.0	0.0	34.4
1964-65	0.0	0.0	0.0	0.0	2.1	11.7	10.2	7.4	16.2	0.0	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.3	5.7	6.0	0.8	0.7	0.1	T	0.0	13.6
1966-67	0.0	0.0	0.0	0.0	T	7.2	14.4	13.2	2.2	1.1	0.0	0.0	38.1
1967-68	0.0	0.0	0.0	6.6	0.3	3.2	8.6	2.8	1.1	T	0.0	0.0	22.6
1968-69	0.0	0.0	0.0	T	5.9	5.4	6.2	0.9	5.6	0.0	T	0.0	24.0
1969-70	0.0	0.0	0.0	0.0	1.5	15.4	7.2	6.1	12.7	8.3	0.0	0.0	51.2
1970-71	0.0	0.0	0.0	0.0	0.2	2.2	17.7	2.6	7.8	T	0.0	0.0	30.5
1971-72	0.0	0.0	0.0	0.0	5.9	0.3	11.8	13.7	19.8	2.6	0.0	0.0	54.1
1972-73	0.0	0.0	0.0	2.0	6.7	6.6	0.4	8.6	0.5	0.9	0.0	0.0	25.7
1973-74	0.0	0.0	0.0	0.0	T	11.4	12.7	7.4	3.0	0.6	0.0	0.0	35.1
1974-75	0.0	0.0	0.0	0.0	15.6	8.8	7.6	19.3	12.2	6.2	0.0	0.0	69.7
1975-76	0.0	0.0	0.0	0.0	9.9	2.5	8.6	0.1	0.6	0.0	T	0.0	21.7
1976-77	0.0	0.0	0.0	0.0	7.7	4.1	12.3	2.5	10.8	1.0	0.0	0.0	38.4
1977-78	0.0	0.0	0.0	0.0	4.8	20.8							
RECORD MEAN	0.0	0.0	T	0.2	2.4	6.9	7.7	5.7	6.6	0.8	T	0.0	30.3

# Indicates a station move or relocation of instruments. See Station Location table.

Record mean values above are means through the current year for the period beginning in 1930 for temperature, 1927 for precipitation, and 1933 for snowfall.

STATION LOCATION

MOLINE, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Telepsychrometer	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Elevation above Sea level: Pyranometer	Remarks
NE Corner, Moline AP 4.5 miles S of Moline Post Office	10/01/26	12/27/39		41° 27'	90° 31'	589	53	3	3				3			
Administration Building Quad City Airport	12/27/39	4/03/61	1200 feet W	41° 27'	90° 31'	g582	a25	b36	c36	d5		e5	15	f4		a - 54 feet for autographic record and 62 feet for direct reading until moved to field 11/13/58. b - 5 feet to 5/31/55 and 6/7/56 to 4/16/58. c - 5 feet to 12/1/54 and 6/7/56 to 4/16/58. d - Added 6/7/56; removed 3/1/60. e - 4 feet to 4/16/58. f - Commissioned 3/1/60. g - 589 feet to 3/1/60.
Terminal Building Quad City Airport	4/16/61	Present	200 feet SE	41° 27'	90° 31'	582	25	17	17		i16	h16	15	4		h - 5 feet to 7/22/63. i - Added 6/1/64.

Requests for additional climatic information should be addressed to: Director, National Climatic Center, Federal Building, Asheville, N. C. 28801

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Daniel B. Mitchell
Director, National Climatic Center

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al Climatological Data

Map

Summary With Comparative Data

1976

MOLINE, ILLINOIS

Narrative Climatological Summary

This area has a temperate continental climate, with a wide temperature range throughout the year. There are some intensely hot, usually humid, periods in summer and severely cold periods in winter. Maxima of 90° or higher have occured as frequently as on 55 days (1936), but in 1882 there were none. Zero or lower readings have occurred during every winter of record ranging from 37 times in 1874-75 to 1 time during 4 winters.

Freezing temperatures have occurred as late in spring as May 20 and as early in autumn as September 20. Precipitation usually is well distributed throughout the year. Normally the greatest amounts fall during the 177-day average crop growing season (April 21-October 14, inclusive). Substantial weather changes frequently occur at 3- or 4-day intervals, as a direct result of proximity to some of the most important storm tracks.

The locality is in the heart of the Corn Belt. Agricultural crops include many important staple products in addition to corn. Cattle, hogs, horses, and poultry produced in Iowa and Illinois rank high in the nation. Close to the Mississippi River there is large scale truck gardening and considerable dairying. Field production of grains and livestock attains greater development farther away from the large streams, where the countryside is rolling prairie. Damaging drouths are not common. This, together with the variety of agricultural products, has led to designating the section as the "Bread Basket" of America.

The climate is favorable for many industries as evidenced by the large number and variety of manufacturing and other enterprises which have located and developed in the community. Among these are some of the world's largest producers of agricultural machinery.

Records began in Davenport, Iowa, in May 1871, and have been continuous to date. At the Quad-City Airport, Moline, Illinois, records began in October 1926, but are not complete in the years 1935, 1936, and 1937. For a summary of data from Lock & Dam No. 15, Davenport, Iowa, please refer to IOWA CLIMATOLOGICAL DATA.

UNIVERSITY OF ILLINOIS-URBANA
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LOCAL CLIMATOLOGICAL DATA, ANNUAL SUMMAR
1976
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noaa NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA SERVICE / NATIONAL CLIMATIC CENTER ASHEVILLE, N.C.

Meteorological Data For The Current Year

Station: MOLINE, ILLINOIS # 14923 — QUAD CITY AIRPORT — Standard time used: CENTRAL — Latitude: 41° 27′ N — Longitude: 90° 31′ W — Elevation (ground): 582 feet — Year: 1976

Month	Temperature °F: Averages: Daily maximum	Daily minimum	Monthly	Extremes: Highest	Date	Lowest	Date	Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Total	Greatest in 24 hrs.	Date	Snow, Ice pellets: Total	Greatest in 24 hrs.	Date	Relative humidity, pct. (Local time): Hour 00	Hour 06	Hour 12	Hour 18	Wind: Resultant: Direction	Speed m.p.h.	Average speed m.p.h.	Fastest mile: Speed m.p.h.	Direction	Date	Percent of possible sunshine	Average sky cover, tenths, sunrise to sunset	Number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperature °F: Maximum (b): 90° and above	32° and below	Minimum: 32° and below	0° and below	Average station pressure mb. Elev. 594 feet m.s.l.
JAN	29.7	8.5	19.1	43	23	-12	27	1413	0	0.88	0.25	25-26	8.6	2.7	25-26	67	65	58	60	26	5.8	12.4	28	NW	21	63	5.6	11	7	13	10	4	0	1	0	16	31	8	997.6
FEB	46.1	24.3	35.2	71	27	-4	2	855	0	1.11	0.32	21	0.1	0.1	21	68	72	53	59	24	3.7	12.9	36	NE	21	64	5.7	9	9	11	6	0	2	0	0	4	23	1	993.2
MAR	51.9	30.5	41.2	77	19	16	6	731	0	3.67	1.79	4	0.6	0.4	12-13	71	77	56	59	24	4.8	14.4	38	NW	21	55	6.8	6	7	18	12	0	4	2	0	0	18	0	991.5
APR	64.9	40.8	52.9	85	17	24	12	385	26	4.21	2.23	23-24	0.0	0.0		68	75	49	46	16	2.1	11.4	32	S	17	63	5.8	9	8	13	10	0	4	0	0	0	7	0	995.6
MAY	69.1	45.8	57.5	85	20	31	4	235	12	4.13	1.74	5-6	T	T	2	73	76	49	50	14	0.7	10.4	38	SW	5	65	5.5	9	10	12	9	0	2	2	0	0	3	0	993.2
JUN	82.9	58.0	70.5	97	13	48	20	2	175	2.02	1.23	13-14	0.0	0.0		72	75	50	47	21	2.7	10.2	65	NW	13	78	4.0	15	10	5	9	0	7	1	4	0	0	0	993.6
JUL	87.1	64.4	75.8	99	14	51	2	0	341	3.34	1.64	15	0.0	0.0		77	81	51	53	23	2.9	8.4	26	NW	14	79	4.4	12	13	6	7	0	4	0	9	0	0	0	994.2
AUG	84.6	58.9	71.8	97	27	47	8	5	221	0.60	0.36	11-12	0.0	0.0		77	83	48	51	16	3.0	7.5	25	W	11	62	4.7	14	7	10	6	0	6	0	8	0	0	0	998.0
SEP	76.3	49.7	63.0	90	8	34	22	123	72	1.89	1.59	25-26	0.0	0.0		72	79	45	51	24	0.7	8.1	22	SW	22	63	5.0	14	5	11	5	0	1	2	1	0	0	0	996.6
OCT	57.9	35.7	46.8	89	2	20	28	569	13	2.13	1.47	5	0.0	0.0		72	75	47	59	31	1.7	8.8	27	SW	14	58	4.9	13	11	7	8	0	0	0	0	0	11	0	997.6
NOV	41.0	19.2	30.1	66	18	-9	29	1038	0	0.65	0.60	26-27	7.7	6.0	26-27	65	71	48	53	28	7.5	11.0	26	SW	17	71	4.6	12	10	8	4	3	0	0	0	8	28	3	997.3
DEC	30.1	9.0	19.6	51	18	-12	7	1403	0	0.34	0.25	5-6	4.1	2.6	5-6	67	68	58	62	27	5.9	11.4	32	NW	23	73	5.4	13	8	10	6	1	0	0	0	17	30	9	995.9
YEAR	60.1	37.1	48.6	99	JUL 14	-12	DEC 7	6759	860	24.97	2.23	APR 23-24	21.1	6.0	NOV 26-27	71	75	51	54	25	2.7	10.6	65	NW	JUN 13	67	5.2	137	105	124	92	8	30	8	22	45	151	21	995.4

Normals, Means, And Extremes

Month	Temperatures °F: Normal: Daily maximum	Daily minimum	Monthly	Extremes: Record highest	Year	Record lowest	Year	Normal Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Normal	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year	Snow, Ice pellets: Maximum monthly	Year	Maximum in 24 hrs.	Year	Relative humidity pct. (Local time): Hour 00	Hour 06	Hour 12	Hour 18	Wind: Mean speed m.p.h.	Prevailing direction	Fastest mile: Speed m.p.h.	Direction	Year	Pct. of possible sunshine	Mean sky cover, tenths, sunrise to sunset	Mean number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperatures °F: Max. (b): 90° and above	32° and below	Min.: 32° and below	0° and below	Average station pressure mb. Elev. 594 feet m.s.l.
(a)				44		44					47		47		47		45		43		16	16	16	16	33	12	48	48		33	34	43	43	43	44	44	43	42	16	16	16	16	4
J	30.0	13.0	21.5	65	1950	-26	1974	1349	0	1.66	4.39	1974	0.31	1961	2.07	1960	17.7	1971	16.4	1971	72	73	65	69	10.7	WNW	56	SW	1946	49	6.6	8	7	16	9	2	*	3	0	18	29	9	996.7
F	34.3	17.0	25.7	71	1976	-23	1933	1100	0	1.29	2.78	1960	0.17	1933	1.90	1948	19.3	1975	10.1	1975	73	74	63	66	11.1	WNW	58	NW	1948	50	6.4	7	6	15	8	2	1	2	0	12	26	3	995.4
M	45.0	26.4	35.7	83	1945	-19	1960	908	0	2.57	7.43	1973	0.31	1958	2.38	1944	19.8	1972	11.0	1972	74	77	61	63	12.1	WNW	66	SW	1954	50	6.8	7	7	17	11	2	2	2	0	4	22	*	992.5
A	61.3	39.8	50.6	91	1970	9	1975	436	0	3.82	11.30	1973	0.68	1946	5.81	1973	8.3	1970	8.2	1970	73	79	55	55	12.2	NW	73	SW	1947	54	6.6	6	9	15	11	*	5	1	*	*	7	0	993.4
M	72.0	50.2	61.1	104	1934	26	1966	184	63	3.92	11.43	1974	0.55	1928	3.68	1970	0.3	1935	0.3	1935	76	80	54	53	10.4	E	68	SW	1955	58	6.3	8	8	15	12	0	7	1	1	0	1	0	991.2
J	81.4	60.2	70.8	104	1934	39	1972	20	194	4.42	8.83	1974	1.02	1963	5.02	1967	0.0		0.0		78	82	54	54	9.2	S	77	SW	1947	64	6.0	7	11	12	10	0	8	1	6	0	0	0	991.8
J	85.2	63.8	74.5	105	1940	46	1971	0	298	4.58	11.39	1969	1.02	1955	5.41	1963	0.0		0.0		82	85	57	59	7.6	E	65	W	1953	71	5.3	10	12	9	9	0	8	1	8	0	0	0	994.1
A	83.8	62.0	72.9	106	1936	40	1934	11	255	3.37	9.31	1965	0.35	1971	4.60	1951	0.0		0.0		83	88	57	61	7.2	E	61	SW	1931	69	5.3	10	11	10	9	0	7	2	6	0	0	0	995.9
S	76.0	53.2	64.6	100	1939	24	1942	79	67	3.84	14.18	1970	0.49	1956	6.29	1961	0.1	1942	0.1	1942	83	87	57	66	8.1	S	66	NW	1945	64	5.2	12	8	10	9	0	4	2	2	0	*	0	996.7
O	66.0	42.8	54.4	92	1963	16	1952	344	16	2.69	9.41	1941	0.01	1964	4.89	1954	6.6	1967	6.5	1967	76	81	54	62	9.1	S	56	SW	1949	61	5.1	12	8	11	7	*	2	2	*	0	5	0	997.4
N	48.1	30.2	39.2	80	1933	-9	1976	774	0	1.87	6.47	1934	0.29	1933	2.73	1961	15.6	1974	8.5	1975	76	79	62	69	10.8	WNW	60	W	1952	44	6.7	7	8	15	8	1	1	1	0	2	18	*	995.7
D	34.6	18.5	26.6	69	1970	-22	1963	1190	0	1.77	4.81	1942	0.23	1929	3.38	1942	16.7	1951	8.4	1954	77	79	70	74	10.6	WNW	61	SW	1947	42	6.8	7	6	18	9	2	1	2	0	14	27	4	996.3
YR	59.8	39.8	49.8	106	AUG 1936	-26	JAN 1974	6395	893	35.80	14.18	SEP 1970	0.01	OCT 1964	6.29	SEP 1961	19.8	MAR 1972	16.4	JAN 1971	77	80	59	63	9.9	WNW	77	SW	JUN 1947	58	6.1	101	101	163	112	9	47	19	22	50	136	16	994.8

(a) Length of record, years, through the current year unless otherwise noted, based on January data.
(b) 70° and above at Alaskan stations.
* Less than one half.
T Trace.

NORMALS - Based on record for the 1941-1970 period.
DATE OF AN EXTREME - The most recent in cases of multiple occurrence.
PREVAILING WIND DIRECTION - Record through 1963.
WIND DIRECTION - Numerals indicate tens of degrees clockwise from true north. 00 indicates calm.
FASTEST MILE WIND - Speed is fastest observed 1-minute value when the direction is in tens of degrees.

Average Temperature

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1937			34.4	48.9	63.0	70.9	76.4	77.4	65.8	51.6	36.4	24.6	
1938	22.4	34.4	44.8	52.4	61.4	69.0	77.0	76.3	67.5	58.6	40.4	27.0	52.6
1939	29.6	24.4	38.0	46.6	65.8	72.2	75.7	71.0	68.8	54.2	39.6	33.1	51.6
1940	10.0	26.2	32.3	47.8	57.8	72.6	76.9	72.1	64.3	57.0	36.0	31.5	48.7
1941	25.6	22.4	33.6	54.4	65.8	71.6	75.0	74.8	67.5	55.6	41.6	34.1	51.8
1942	22.5	24.6	39.5	55.3	60.8	71.0	75.0	71.7	63.0	53.2	39.7	21.0	49.8
1943	19.6	27.3	32.3	48.2	57.8	73.2	75.9	74.8	61.2	52.2	35.0	26.9	48.7
1944	30.1	27.4	32.6	46.4	66.2	73.6	73.8	73.4	66.2	53.4	42.5	20.2	50.5
1945	18.2	27.7	48.8	51.6	55.6	66.5	72.2	73.2	63.9	51.0	38.6	19.7	48.9
1946	25.6	29.5	48.0	53.5	57.8	70.2	74.8	69.2	64.8	57.8	40.8	31.4	52.0
1947	27.0	20.1	32.5	48.8	56.5	67.4	72.2	81.0	68.2	62.6	33.8	30.2	50.0
1948	17.5	24.4	35.6	55.2	57.8	69.0	75.1	73.6	67.6	51.1	41.3	29.0	49.8
1949	23.0	24.8	37.1	49.4	63.8	73.6	78.0	73.5	59.0	57.0	41.8	31.0	51.0
1950	25.9	24.7	32.9	43.6	62.0	69.6	71.1	68.5	64.1	59.2	33.8	19.1	47.9
1951	20.6	25.6	31.8	47.3	63.3	67.2	72.9	71.5	61.8	54.6	32.6	23.4	47.7
1952	25.1	31.4	33.5	52.1	60.6	75.7	76.4	71.1	64.7	46.6	41.4	30.5	50.7
1953	25.3	30.0	37.3	45.9	60.5	74.3	75.9	74.3	65.4	57.9	42.8	30.0	51.6
1954	23.3	36.3	34.0	53.7	56.1	74.6	76.2	72.0	67.5	53.1	40.7	29.1	51.4
1955	22.0	25.3	36.0	57.0	63.8	67.8	80.5	76.8	66.4	53.6	34.2	24.2	50.6
1956	22.7	26.9	36.1	47.1	62.6	74.0	73.2	73.3	63.4	59.0	38.4	28.9	50.5
1957	16.6	32.5	37.0	50.4	59.6	70.4	76.7	73.2	61.9	49.8	38.1	32.8	49.9
1958	22.2	16.7	35.7	50.5	62.2	66.3	71.3	73.5	64.4	56.0	42.0	22.2	48.6
1959	15.7	25.7	36.9	49.4	65.3	72.0	73.2	77.2	66.3	49.9	31.4	34.7	49.8
#1960	25.7	22.3	19.9	53.4	58.9	68.5	72.8	73.8	68.6	53.8	41.5	23.7	48.6
1961	21.1	30.7	39.3	44.3	58.1	71.9	74.2	73.9	66.1	55.4	40.8	23.0	49.9
1962	16.2	23.7	32.6	49.3	67.9	70.6	71.6	72.9	61.7	55.2	39.0	23.2	48.7
1963	9.7	17.9	41.1	52.9	60.0	73.5	74.8	70.8	64.9	64.4	43.1	13.8	48.9
1964	28.4	27.0	34.4	51.5	66.3	72.3	76.6	70.8	65.6	50.7	44.2	24.8	51.1
1965	21.4	25.7	26.9	49.2	65.9	69.6	74.9	71.1	63.5	53.6	40.7	34.5	49.8
1966	14.3	24.8	39.2	47.0	56.3	70.5	77.9	70.6	62.9	52.5	41.7	28.1	48.8
1967	26.0	18.7	39.0	51.6	56.4	70.9	71.4	67.7	62.1	52.1	36.1	28.5	48.4
1968	21.0	22.7	41.9	51.3	57.2	72.1	73.1	73.5	63.1	53.2	37.3	24.5	49.3
1969	17.9	27.9	32.2	51.6	61.7	67.1	75.0	73.7	64.9	51.7	37.9	24.3	48.8
1970	13.1	24.7	33.6	51.8	64.9	70.7	75.7	72.9	65.2	53.9	39.2	28.9	49.5
1971	14.8	25.9	34.7	50.9	58.0	76.6	70.7	71.9	68.7	59.9	40.0	31.6	50.3
1972	18.6	20.7	36.0	48.0	63.0	69.4	74.6	74.0	66.7	50.2	37.3	22.3	48.4
1973	27.1	28.7	45.4	49.7	57.6	72.3	74.9	75.1	65.7	57.3	40.4	23.7	51.5
1974	21.6	26.8	38.5	53.3	58.8	67.5	77.3	70.3	60.4	53.7	40.1	28.6	49.8
1975	24.9	25.0	30.6	45.1	63.8	72.3	75.0	75.1	60.9	56.2	45.0	30.3	50.4
1976	19.1	35.2	41.2	52.9	57.5	70.5	75.8	71.8	63.0	46.8	30.1	19.6	48.6
RECORD MEAN	22.0	26.6	36.1	50.2	61.0	71.3	75.1	73.2	65.0	54.2	39.0	26.8	50.0
MAX	30.5	35.2	45.3	60.9	72.0	82.2	86.2	84.2	76.5	65.7	48.1	34.7	60.1
MIN	13.5	17.9	26.8	39.4	49.9	60.3	64.0	62.1	53.4	42.6	29.9	18.8	39.9

Heating Degree Days

MOLINE, IL

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1956-57	0	13	109	189	790	1109	1492	902	861	448	191	23	6127
1957-58	0	2	136	467	800	989	1319	1345	898	435	125	41	6557
1958-59	4	21	93	289	685	1319	1523	1096	861	462	114	8	6475
#1959-60	4	1	100	462	1002	932	1212	1229	1392	376	203	13	6926
1960-61	2	1	55	348	700	1277	1355	954	789	614	242	12	6349
1961-62	1	0	121	309	722	1297	1510	1150	999	481	78	22	6690
1962-63	8	1	149	342	774	1292	1717	1315	734	370	186	15	6903
1963-64	0	16	83	108	653	1585	1129	1097	942	405	71	20	6109
1964-65	3	24	100	437	624	1241	1344	1096	1174	471	86	3	6603
1965-66	0	21	115	363	722	939	1568	1119	794	533	287	31	6492
1966-67	0	6	116	386	695	1137	1202	1289	802	404	305	10	6352
1967-68	21	33	136	424	860	1127	1354	1221	711	409	248	18	6562
1968-69	8	15	96	404	826	1247	1458	1032	1010	398	172	57	6723
1969-70	0	0	80	445	805	1253	1607	1120	967	419	118	21	6835
1970-71	0	2	92	350	764	1111	1556	1088	931	425	242	0	6561
1971-72	17	3	94	195	740	1026	1434	1280	893	504	155	25	6366
1972-73	8	7	80	459	824	1319	1170	1013	598	452	223	1	6154
1973-74	0	0	78	258	733	1274	1338	1061	812	360	235	32	6181
1974-75	0	8	180	349	739	1122	1235	1114	1058	593	117	14	6529
1975-76	9	0	162	297	594	1072	1413	855	731	385	235	2	5755
1976-77	0	5	123	569	1038	1403							

Cooling Degree Days

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
1969	0	0	0	1	77	130	320	276	86	41	0	0	931
1970	0	0	0	32	119	198	341	256	105	15	0	0	1066
1971	0	0	0	9	32	355	203	225	212	44	0	0	1080
1972	0	0	0	3	102	165	312	294	138	6	0	0	1020
1973	0	0	0	2	2	226	312	323	103	27	0	0	995
1974	0	0	0	17	50	113	389	180	45	3	0	0	797
1975	0	0	0	1	85	241	325	319	44	29	0	0	1044
1976	0	0	0	26	12	175	341	221	72	13	0	0	860

Precipitation

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1937			1.13	3.69	4.15	2.35	3.56	1.34	1.22	2.11	0.79	0.91	
1938	2.54	1.68	2.94	3.24	6.78	4.63	5.81	3.49	6.84	1.52	2.45	0.88	42.80
1939	1.67	1.70	2.68	3.56	2.28	3.99	2.45	5.59	0.94	2.96	0.94	0.30	29.06
1940	1.26	0.53	1.57	3.01	1.37	1.19	2.34	4.88	1.54	2.02	1.57	1.57	22.85
1941	2.86	0.53	1.38	4.49	3.49	6.46	1.67	1.66	5.45	9.41	1.25	1.43	40.08
1942	0.78	1.08	1.39	0.92	4.06	5.73	4.18	2.80	2.95	0.92	2.99	4.81	32.61
1943	1.36	1.84	1.49	5.61	6.38	4.55	2.10	4.31	1.23	3.24	1.77	0.41	34.29
1944	0.60	1.99	5.27	5.55	4.60	6.19	2.40	2.88	1.60	1.06	2.98	1.54	36.66
1945	0.44	0.90	3.36	3.88	5.07	2.52	1.39	3.86	4.74	1.09	1.71	1.69	30.65
1946	2.53	0.28	4.64	0.68	4.10	6.42	1.47	3.91	3.47	1.65	2.49	1.43	33.07
1947	2.08	0.23	2.10	7.36	3.70	5.99	4.08	0.52	5.13	0.88	1.92	1.64	35.63
1948	0.84	2.35	3.46	1.67	2.11	2.91	8.27	2.83	3.66	1.81	2.23	2.21	34.35
1949	3.28	1.78	2.76	1.10	1.82	5.45	3.40	7.12	1.96	2.27	0.71	2.91	34.56
1950	3.56	1.76	1.09	5.87	3.01	5.11	4.41	1.87	3.85	0.61	0.73	1.01	32.88
1951	1.05	2.56	5.06	3.60	5.90	6.65	5.60	8.00	3.47	3.75	1.68	1.28	48.60
1952	1.57	0.78	3.88	1.17	2.22	7.13	2.66	3.50	0.77	0.04	2.99	1.93	28.64
1953	1.04	2.72	2.68	1.73	3.18	3.43	4.88	1.05	1.79	1.00	1.07	1.90	26.47
1954	0.34	1.69	3.13	4.58	3.58	5.10	1.98	6.67	1.59	7.43	0.75	2.02	38.86
1955	2.03	1.88	1.20	5.33	2.30	3.65	1.02	2.44	2.40	2.70	0.60	0.54	26.09
1956	0.31	1.39	0.54	2.15	2.27	1.55	4.09	3.34	0.49	0.40	2.43	1.24	20.20
1957	1.33	1.57	2.90	3.49	4.11	2.52	4.47	3.17	1.16	2.00	2.38	3.82	32.92
1958	1.26	0.49	0.31	2.53	3.96	3.77	4.62	1.09	3.00	1.75	1.17	0.50	24.45
1959	1.41	1.77	3.06	4.75	5.31	3.62	4.48	3.90	4.29	5.59	1.50	2.42	42.10
1960	3.43	2.78	1.28	4.89	3.98	5.40	3.40	3.97	3.42	4.91	1.11	0.88	39.45
1961	0.31	1.20	4.48	2.19	1.98	3.69	7.63	2.37	11.00	4.53	4.94	1.58	45.90
1962	2.08	1.84	2.42	2.44	6.10	1.48	6.72	1.95	2.90	4.15	1.21	0.55	33.85
1963	0.91	0.37	3.29	4.24	2.36	1.02	8.78	4.02	2.38	0.63	1.84	0.94	30.78
1964	1.59	0.73	4.02	6.37	2.68	3.89	5.31	2.41	3.99	0.01	3.40	1.27	35.67
1965	4.08	0.97	2.52	7.92	4.04	2.07	4.78	9.31	8.27	0.88	1.93	2.82	49.59
1966	2.01	0.89	0.85	3.96	6.39	4.25	7.74	0.77	2.80	4.38	1.12	2.52	37.68
1967	2.00	1.11	1.68	4.91	1.70	8.15	4.15	3.62	4.99	6.23	2.26	1.56	42.36
1968	0.80	0.32	1.96	3.57	2.59	3.70	3.91	2.16	5.70	1.09	3.29	2.76	31.85
1969	3.28	0.21	2.25	3.11	3.40	6.97	11.39	2.00	2.50	4.63	0.53	1.52	41.79
1970	0.54	0.57	2.62	4.66	11.07	3.25	6.27	3.61	14.18	1.75	1.25	1.95	51.72
1971	1.79	1.57	1.99	1.86	3.14	2.36	11.22	0.35	4.54	2.64	2.21	4.77	38.44
1972	1.19	1.24	3.73	5.19	4.24	8.66	3.79	8.20	3.29	2.39	2.75	1.98	46.65
1973	2.53	1.94	7.43	11.30	6.96	6.58	2.63	2.30	6.74	3.06	1.15	3.74	56.36
1974	4.39	1.57	2.94	5.08	11.43	8.83	1.73	3.37	1.08	1.99	2.59	1.83	46.83
1975	1.50	1.75	3.30	2.88	3.23	3.50	2.71	3.23	1.99	0.90	2.98	0.98	28.95
1976	0.83	1.11	3.67	4.21	4.13	2.02	3.34	0.60	1.89	2.13	0.65	0.34	24.97
RECORD MEAN	1.65	1.28	2.61	3.77	4.05	4.44	4.20	3.39	3.79	2.61	2.04	1.67	35.50

Snowfall

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1937-38	0.0	0.0	0.0	0.0	4.0	5.7	3.7	1.7	0.6	0.8	0.0	0.0	16.5
1938-39	0.0	0.0	0.0	0.1	0.4	3.1	11.8	6.1	2.5	T	0.0	0.0	24.0
1939-40	0.0	0.0	0.0	T	0.0	T	12.6	3.4	3.1	0.0	0.0	0.0	19.1
1940-41	0.0	0.0	0.0	0.0	2.3	1.4	14.5	3.9	11.5	0.0	0.0	0.0	33.6
1941-42	0.0	0.0	0.0	0.0	1.3	4.4	4.8	6.1	0.8	0.0	0.0	0.0	17.4
1942-43	0.0	0.0	0.1	T	1.6	7.6	11.1	2.5	5.3	T	0.0	0.0	28.2
1943-44	0.0	0.0	0.0	0.0	T	0.4	T	12.6	4.3	T	T	0.0	17.3
1944-45	0.0	0.0	0.0	0.0	0.3	13.9	5.8	4.3	0.7	T	T	0.0	25.0
1945-46	0.0	0.0	0.0	0.0	1.0	11.4	2.5	4.4	2.8	T	0.0	0.0	22.1
1946-47	0.0	0.0	0.0	T	0.0	5.3	8.5	4.3	7.2	T	0.0	0.0	25.3
1947-48	0.0	0.0	0.0	0.0	7.7	1.8	3.8	3.0	8.0	0.0	0.0	0.0	24.3
1948-49	0.0	0.0	0.0	0.0	T	6.2	5.3	2.5	0.9	1.1	0.0	0.0	16.0
1949-50	0.0	0.0	0.0	0.0	0.5	2.3	1.7	7.9	2.5	0.4	0.0	0.0	15.3
1950-51	0.0	0.0	0.0	0.0	2.1	7.3	7.1	4.9	17.0	1.4	0.0	0.0	39.8
1951-52	0.0	0.0	0.0	T	3.4	16.7	4.7	5.9	15.2	T	0.0	0.0	45.9
1952-53	0.0	0.0	0.0	0.0	T	2.5	12.1	6.2	7.1	0.4	0.0	0.0	28.3
1953-54	0.0	0.0	0.0	0.0	1.4	7.8	1.4	4.9	2.2	0.0	T	0.0	17.7
1954-55	0.0	0.0	0.0	T	3.7	16.2	11.2	6.1	8.8	0.0	0.0	0.0	46.0
1955-56	0.0	0.0	0.0	T	2.0	2.9	2.2	7.5	0.7	0.3	0.0	0.0	15.6
1956-57	0.0	0.0	0.0	0.0	2.1	6.5	11.8	0.7	6.9	6.5	0.0	0.0	34.5
1957-58	0.0	0.0	0.0	0.0	0.3	6.4	14.0	1.7	2.0	T	0.0	0.0	24.4
1958-59	0.0	0.0	0.0	0.0	0.9	8.1	15.1	3.6	13.9	1.7	0.0	0.0	43.3
1959-60	0.0	0.0	0.0	T	9.1	9.9	8.5	19.3	14.7	T	T	0.0	61.5
1960-61	0.0	0.0	0.0	0.0	T	5.5	3.4	2.5	2.4	2.5	0.0	0.0	16.3
1961-62	0.0	0.0	0.0	0.0	T	13.6	11.2	15.8	7.1	0.2	0.0	0.0	47.9
1962-63	0.0	0.0	0.0	0.2	T	3.1	14.7	5.8	7.3	0.0	0.0	0.0	31.1
1963-64	0.0	0.0	0.0	0.0	T	9.7	5.3	5.5	13.9	T	0.0	0.0	34.4
1964-65	0.0	0.0	0.0	0.0	2.1	11.7	10.2	7.4	16.2	0.0	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.3	5.7	6.0	0.8	0.7	0.1	T	0.0	13.6
1966-67	0.0	0.0	0.0	0.0	T	7.2	14.4	13.2	2.2	1.1	0.0	0.0	38.1
1967-68	0.0	0.0	0.0	6.6	0.3	3.2	8.6	2.8	1.1	T	0.0	0.0	22.6
1968-69	0.0	0.0	0.0	T	5.9	5.4	6.2	0.9	5.6	0.0	T	0.0	24.0
1969-70	0.0	0.0	0.0	0.0	1.5	15.4	7.2	6.1	12.7	8.3	0.0	0.0	51.2
1970-71	0.0	0.0	0.0	0.0	0.2	2.2	17.7	2.6	7.8	T	0.0	0.0	30.5
1971-72	0.0	0.0	0.0	0.0	5.9	0.3	11.8	13.7	19.8	2.6	0.0	0.0	54.1
1972-73	0.0	0.0	0.0	2.0	6.7	6.6	0.4	8.6	0.5	0.9	0.0	0.0	25.7
1973-74	0.0	0.0	0.0	0.0	T	11.4	12.7	7.4	3.0	0.6	0.0	0.0	35.1
1974-75	0.0	0.0	0.0	0.0	15.6	8.8	7.6	19.3	12.2	6.2	0.0	0.0	69.7
1975-76	0.0	0.0	0.0	0.0	9.9	2.5	8.6	0.1	0.6	0.0	T	0.0	21.7
1976-77	0.0	0.0	0.0	0.0	7.7	4.1							
RECORD MEAN	0.0	0.0	T	0.2	2.3	6.5	7.6	5.7	6.5	0.8	T	0.0	29.6

# Indicates a station move or relocation of instruments. See Station Location table.

Record mean values above are means through the current year for the period beginning in 1930 for temperature, 1927 for precipitation, and 1933 for snowfall.

STATION LOCATION

MOLINE, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Elevation above Ground: Extreme thermometers	Elevation above Ground: Psychrometer	Elevation above Ground: Telepsychrometer	Elevation above Ground: Tipping bucket rain gage	Elevation above Ground: Weighing rain gage	Elevation above Ground: 8" rain gage	Elevation above Ground: Hygrothermometer	Elevation above Sea level: Pyranometer	Remarks
NE Corner, Moline AP 4.5 miles S of Moline Post Office	10/01/26	12/27/39		41° 27'	90° 31'	589	53	3	3				3			
Administration Building Quad City Airport	12/27/39	4/03/61	1200 feet W	41° 27'	90° 31'	g582	a25	b36	c36	d5		e5	15	f4		a - 54 feet for autographic record and 62 feet for direct reading until moved to field 11/13/58. b - 5 feet to 5/31/55 and 6/7/56 to 4/16/58. c - 5 feet to 12/1/54 and 6/7/56 to 4/16/58. d - Added 6/7/56; removed 3/1/60. e - 4 feet to 4/16/58. f - Commissioned 3/1/60. g - 589 feet to 3/1/60.
Terminal Building Quad City Airport	4/16/61	Present	200 feet SE	41° 27'	90° 31'	582	25	17	17		i16	h16	15	4		h - 5 feet to 7/22/63. i - Added 6/1/64.

Requests for additional climatic information should be addressed to: Director, National Climatic Center, Federal Building, Asheville, N. C. 28801

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Daniel B. Mitchell
Director, National Climatic Center

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l Climatological Data

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1975

MOLINE, ILLINOIS

Narrative Climatological Summary

This area has a temperate continental climate, with a wide temperature range throughout the year. There are some intensely hot, usually humid, periods in summer and severely cold periods in winter. Maxima of 90° or higher have occured as frequently as on 55 days (1936), but in 1882 there were none. Zero or lower readings have occurred during every winter of record ranging from 37 times in 1874-75 to 1 time during 4 winters.

Freezing temperatures have occurred as late in spring as May 20 and as early in autumn as September 20. Precipitation usually is well distributed throughout the year. Normally the greatest amounts fall during the 177-day average crop growing season (April 21-October 14, inclusive). Substantial weather changes frequently occur at 3- or 4-day intervals, as a direct result of proximity to some of the most important storm tracks.

The locality is in the heart of the Corn Belt. Agricultural crops include many important staple products in addition to corn. Cattle, hogs, horses, and poultry produced in Iowa and Illinois rank high in the nation. Close to the Mississippi River there is large scale truck gardening and considerable dairying. Field production of grains and livestock attains greater development farther away from the large streams, where the countryside is rolling prairie. Damaging drouths are not common. This, together with the variety of agricultural products, has led to designating the section as the "Bread Basket" of America.

The climate is favorable for many industries as evidenced by the large number and variety of manufacturing and other enterprises which have located and developed in the community. Among these are some of the world's largest producers of agricultural machinery.

Records began in Davenport, Iowa, in May 1871, and have been continuous to date. At the Quad-City Airport, Moline, Illinois, records began in October 1926, but are not complete in the years 1935, 1936, and 1937. For a summary of data from Lock & Dam No. 15, Davenport, Iowa, please refer to IOWA CLIMATOLOGICAL DATA.

UNIVERSITY OF ILLINOIS-URBANA
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LOCAL CLIMATOLOGICAL DATA, ANNUAL SUMMAR
1975
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noaa NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA SERVICE / NATIONAL CLIMATIC CENTER ASHEVILLE, N.C.

Meteorological Data For The Current Year

Station: MOLINE, ILLINOIS — QUAD CITY AIRPORT | Standard time used: CENTRAL | Latitude: 41° 27' N | Longitude: 90° 31' W | Elevation (ground): 582 feet | Year: 1975

Month	Temperature °F: Averages: Daily maximum	Daily minimum	Monthly	Extremes: Highest	Date	Lowest	Date	Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Total	Greatest in 24 hrs.	Date	Snow, Ice pellets: Total	Greatest in 24 hrs.	Date	Relative humidity, pct. (Local time): Hour 00	Hour 06	Hour 12	Hour 18
JAN	32.8	17.0	24.9	57	10	-8	20	1235	0	1.50	0.35	24-25	7.6	2.0	15	78	78	69	73
FEB	31.0	19.0	25.0	46	21	-7	9	1114	0	1.75	0.74	16-17	19.3	10.1	23-24	75	77	67	69
MAR	39.3	21.9	30.6	69	21	5	4	1058	0	3.30	1.12	27	12.2	6.2	27	77	78	65	69
APR	54.6	35.6	45.1	79	17	9	4	593	1	2.88	1.03	23	6.2	6.2	2	74	78	56	59
MAY	75.4	52.1	63.8	93	23	36	1	117	85	3.23	0.89	24-25	0.0	0.0		74	81	52	53
JUN	82.9	61.6	72.3	92	28	48	8	14	241	3.50	1.23	13-14	0.0	0.0		80	82	56	59
JUL	86.7	63.2	75.0	95	18	48	14	9	325	2.71	1.65	23	0.0	0.0		82	84	52	54
AUG	84.8	65.3	75.1	98	12	48	7	0	319	3.23	1.15	29	0.0	0.0		80	85	62	62
SEP	71.6	50.1	60.9	87	2	34	26	162	44	1.99	1.22	4-5	0.0	0.0		80	84	55	64
OCT	69.5	42.8	56.2	90	13	29	30	297	29	0.90	0.62	24	0.0	0.0		70	73	46	54
NOV	54.2	35.8	45.0	72	9	11	28	594	0	2.98	0.90	26-27	9.9	8.5	26-27	77	79	67	74
DEC	37.1	23.4	30.3	66	5	0	18	1072	0	0.98	0.45	13-14	2.5	1.8	29-30	75	76	68	72
YEAR	60.0	40.7	50.4	98	AUG 12	-8	JAN 20	6265	1044	28.95	1.65	JUL 23	57.7	10.1	FEB 23-24	77	80	60	64

Month	Wind: Resultant: Direction	Speed m.p.h.	Average speed m.p.h.	Fastest mile: Speed m.p.h.	Direction	Date	Percent of possible sunshine	Average sky cover, tenths, sunrise to sunset	Number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperature °F: Maximum (b): 90° and above	32° and below	Minimum: 32° and below	0° and below	Average station pressure mb: Elev. 594 feet m.s.l.
JAN	25	5.7	11.9	39	SW	11	50	7.7	5	4	22	18	3	1	2	0	16	29	1	994.6
FEB	31	3.7	12.6	39	W	25	42	7.5	6	4	18	10	4	2	2	0	11	26	2	995.3
MAR	29	2.4	11.9	34	SW	24	55	6.8	5	11	15	14	3	4	0	0	11	27	0	993.9
APR	08	3.3	12.5	35	W	19	56	6.7	6	9	15	9	1	4	0	0	2	12	0	995.6
MAY	15	1.9	9.1	40	SW	20	46	6.0	9	8	14	14	0	10	1	3	0	0	0	991.5
JUN	20	3.6	8.3	31	W	18	46	5.8	9	8	13	15	0	13	0	7	0	0	0	991.9
JUL	23	1.6	7.3	31	NW	23	68	3.9	16	10	5	6	0	6	0	13	0	0	0	993.9
AUG	17	2.1	7.1	31	NW	11	59	6.0	8	9	14	14	0	9	1	8	0	0	0	995.3
SEP	27	0.8	7.2	29	NW	23	49	5.8	11	4	15	7	0	3	2	0	0	0	0	997.6
OCT	20	4.0	9.3	32	W	24	77	3.5	16	10	5	3	0	3	0	1	0	3	0	996.6
NOV	21	3.6	10.8	43	SW	9	39	6.8	8	4	18	12	1	3	2	0	3	11	0	994.6
DEC	28	1.1	10.6	43	SW	14	21	7.8	5	4	22	8	1	1	1	0	13	27	1	998.6
YEAR	23	1.6	9.9	43	SW	DEC 14	52	6.2	104	85	176	130	13	59	11	32	56	135	4	995.0

Normals, Means, And Extremes

Month	Temperatures °F: Normal: Daily maximum	Daily minimum	Monthly	Extremes: Record highest	Year	Record lowest	Year	Normal Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Normal	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year	Snow, Ice pellets: Maximum monthly	Year	Maximum in 24 hrs.	Year	Relative humidity pct. (Local time): Hour 00	Hour 06	Hour 12	Hour 18
(a)				16		16					46		46		46		44		42		15	15	15	15
J	30.0	13.0	21.5	63	1967	-26	1974	1349	0	1.66	4.39	1974	0.31	1961	2.07	1960	17.7	1971	16.4	1971	72	73	66	69
F	34.3	17.0	25.7	67	1972	-19	1972	1100	0	1.29	2.78	1960	0.17	1933	1.90	1948	19.3	1975	10.1	1975	73	74	64	66
M	45.0	26.4	35.7	80	1968	-19	1960	908	0	2.57	7.43	1973	0.31	1958	2.38	1944	19.8	1972	11.0	1972	74	77	61	63
A	61.3	39.8	50.6	91	1970	9	1975	436	0	3.82	11.30	1973	0.68	1946	5.81	1973	8.3	1970	8.2	1970	74	79	56	56
M	72.0	50.2	61.1	94	1967	26	1966	184	63	3.92	11.43	1974	0.55	1928	3.68	1970	0.3	1935	0.3	1935	76	81	54	53
J	81.4	60.2	70.8	99	1971	39	1972	20	194	4.42	8.83	1974	1.02	1963	5.02	1967	0.0		0.0		78	82	54	55
J	85.2	63.8	74.5	100	1966	46	1971	0	298	4.58	11.39	1969	1.02	1955	5.41	1963	0.0		0.0		82	85	57	59
A	83.8	62.0	72.9	98	1975	44	1963	11	255	3.37	9.31	1965	0.35	1971	4.60	1951	0.0		0.0		84	88	57	61
S	76.0	53.2	64.6	98	1960	32	1974	79	67	3.84	14.18	1970	0.49	1956	6.29	1961	0.1	1942	0.1	1942	83	87	58	67
O	66.0	42.8	54.4	92	1963	19	1962	344	16	2.69	9.41	1941	0.01	1964	4.89	1954	6.6	1967	6.5	1967	76	81	54	63
N	48.1	30.2	39.2	77	1961	3	1964	774	0	1.87	6.47	1934	0.29	1933	2.73	1961	15.6	1974	8.5	1975	76	80	63	70
D	34.6	18.5	26.6	69	1970	-22	1963	1190	0	1.77	4.81	1942	0.23	1929	3.38	1942	16.7	1951	8.4	1954	78	79	71	75
YR	59.8	39.8	49.8	100	JUL 1966	-26	JAN 1974	6395	893	35.80	14.18	SEP 1970	0.01	OCT 1964	6.29	SEP 1961	19.8	MAR 1972	16.4	JAN 1971	77	81	60	63

Month	Wind: Mean speed m.p.h.	Prevailing direction	Fastest mile: Speed m.p.h.	Direction	Year	Pct. of possible sunshine	Mean sky cover, tenths, sunrise to sunset	Mean number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperatures °F: Max.: (b) 90° and above	32° and below	Min.: 32° and below	0° and below	Average station pressure mb.: Elev. 594 feet m.s.l.
(a)	32	12	47	47		32	33	42	42	42	43	43	42	41	15	15	15	15	3
J	10.7	WNW	56	SW	1946	48	6.6	8	7	16	9	2	*	3	0	18	29	9	996.4
F	11.1	WNW	58	NW	1948	49	6.4	7	6	15	8	2	1	2	0	13	26	3	996.2
M	12.0	WNW	66	SW	1954	50	6.8	7	7	17	11	2	2	2	0	4	22	*	992.8
A	12.2	NW	73	SW	1947	53	6.6	6	9	15	11	*	5	1	*	*	7	0	992.7
M	10.4	E	68	SW	1955	58	6.3	7	9	15	12	0	7	1	1	0	*	0	990.5
J	9.2	S	77	SW	1947	64	6.1	7	11	12	10	0	8	1	6	0	0	0	991.2
J	7.5	E	65	W	1953	71	5.3	10	12	9	9	0	9	1	8	0	0	0	994.0
A	7.2	E	61	SW	1931	70	5.3	10	11	10	9	0	7	2	5	0	0	0	995.2
S	8.1	S	66	NW	1945	64	5.2	12	8	10	9	0	5	2	2	0	*	0	996.7
O	9.1	S	56	SW	1949	61	5.1	12	8	11	7	*	2	2	*	0	5	0	997.3
N	10.7	WNW	60	W	1952	43	6.7	7	7	16	8	1	1	1	0	1	18	0	995.2
D	10.5	WNW	61	SW	1947	41	6.9	7	6	18	9	2	1	2	0	14	27	3	996.4
YR	9.9	WNW	77	SW	JUN 1947	58	6.1	100	101	164	112	9	48	19	22	50	135	15	994.6

Means and extremes above are from existing and comparable exposures. Annual extremes have been exceeded at other sites in the locality as follows:
Highest temperature 106 in August 1936.

(a) Length of record, years, through the current year unless otherwise noted, based on January data.
(b) 70° and above at Alaskan stations.
* Less than one half.
T Trace.

NORMALS - Based on record for the 1941-1970 period.
DATE OF AN EXTREME - The most recent in cases of multiple occurrence.
PREVAILING WIND DIRECTION - Record through 1963.
WIND DIRECTION - Numerals indicate tens of degrees clockwise from true north. 00 indicates calm.
FASTEST MILE WIND - Speed is fastest observed 1-minute value when the direction is in tens of degrees.

Average Temperature

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1936								80.1	68.6	53.6	37.6		
1937			34.4	48.9	63.0	70.9	76.4	77.4	65.8	51.6	36.4	24.6	
1938	22.4	34.4	44.8	52.4	61.4	69.0	77.0	76.3	67.5	58.6	40.4	27.0	52.6
1939	29.6	24.4	39.0	46.6	65.8	72.2	75.7	71.0	68.8	54.2	39.6	33.1	51.6
1940	10.0	26.2	32.3	47.8	57.8	72.6	76.9	72.1	64.3	57.0	36.0	31.5	48.7
1941	25.6	22.4	33.6	54.4	65.8	71.6	75.0	74.8	67.5	55.6	41.6	34.1	51.8
1942	22.5	24.6	39.5	55.3	60.8	71.0	75.0	71.7	63.0	53.2	39.7	21.0	49.8
1943	19.6	27.3	37.3	48.2	57.8	73.2	75.9	74.8	61.2	52.2	35.0	26.9	48.7
1944	30.1	27.4	37.6	46.4	66.2	73.6	73.8	73.4	66.2	53.4	42.5	20.2	50.5
1945	18.2	27.7	48.8	51.6	55.6	66.5	72.2	73.2	63.9	51.0	38.6	19.7	48.9
1946	25.6	29.5	48.0	53.5	57.8	70.2	74.8	69.2	64.8	57.8	40.8	31.4	52.0
1947	27.0	20.1	32.5	48.8	56.5	67.4	72.2	81.0	68.2	62.6	33.8	30.2	50.0
1948	17.5	24.4	35.6	55.2	57.8	69.0	75.1	73.6	67.6	51.1	41.3	29.0	49.8
1949	23.0	24.8	37.1	49.4	63.8	73.6	78.0	73.5	59.0	57.0	41.8	31.0	51.0
1950	25.9	24.7	32.9	43.6	62.0	69.6	71.1	68.5	64.1	59.2	33.8	19.1	47.9
1951	20.6	25.6	31.8	47.3	63.3	67.2	72.9	71.5	61.8	54.6	32.6	23.4	47.7
1952	25.1	31.4	33.5	52.1	60.6	75.7	76.4	71.1	64.7	46.6	41.4	30.5	50.7
1953	25.3	30.0	37.3	45.9	60.5	74.3	75.9	74.3	65.4	57.9	42.8	30.0	51.6
1954	23.3	36.3	34.0	53.7	56.1	74.6	76.2	72.0	67.5	53.1	40.7	29.1	51.4
1955	22.0	25.3	36.0	57.0	63.8	67.8	80.5	76.8	66.4	53.6	34.2	24.2	50.6
1956	22.7	26.9	36.1	47.1	62.6	74.0	73.2	73.3	63.4	59.0	38.4	28.9	50.5
1957	16.6	32.5	37.0	50.4	59.6	70.4	76.7	73.2	61.9	49.8	38.1	32.8	49.9
1958	22.2	16.7	35.7	50.5	62.2	66.3	71.3	73.5	64.4	56.0	42.0	22.2	48.6
1959	15.7	25.7	36.9	49.4	65.3	72.0	73.2	77.2	66.3	49.9	31.4	34.7	49.8
#1960	25.7	22.3	19.9	53.4	58.9	68.5	72.8	73.8	68.6	53.8	41.5	23.7	48.6
1961	21.1	30.7	39.3	44.3	58.1	71.9	74.2	73.9	66.1	55.4	40.8	23.0	49.9
1962	16.2	23.7	32.6	49.3	67.9	70.6	71.6	72.9	61.7	55.2	39.0	23.2	48.7
1963	9.7	17.9	41.1	52.9	60.0	73.5	74.8	70.8	64.9	64.4	43.1	13.8	48.9
1964	28.4	27.0	34.4	51.5	66.3	72.3	76.6	70.8	65.6	50.7	44.2	24.8	51.1
1965	21.4	25.7	26.9	49.2	65.9	69.6	74.9	71.1	63.5	53.6	40.7	34.5	49.8
1966	14.3	24.8	39.2	47.0	56.3	70.5	77.9	70.6	62.9	52.5	41.7	28.1	48.8
1967	26.0	18.7	39.0	51.6	56.4	70.9	71.4	67.7	62.1	52.1	36.1	28.5	48.4
1968	21.0	22.7	41.9	51.3	57.2	72.1	73.1	73.5	63.1	53.2	37.3	24.5	49.3
1969	17.9	27.9	32.2	51.6	61.7	67.1	75.0	73.7	64.9	51.7	37.9	24.3	48.8
1970	13.1	24.7	33.6	51.8	64.9	70.7	75.7	72.9	65.2	53.9	39.2	28.9	49.5
1971	14.8	25.9	34.7	50.9	58.0	76.6	70.7	71.9	68.7	59.9	40.0	31.6	50.3
1972	18.6	20.7	36.0	48.0	63.0	69.4	74.6	74.0	66.7	50.2	37.3	22.3	48.4
1973	27.1	28.7	45.4	49.7	57.6	72.3	74.9	75.1	65.7	57.3	40.4	23.7	51.5
1974	21.6	26.8	38.5	53.3	58.8	67.5	77.3	70.3	60.4	53.7	40.1	28.6	49.8
1975	24.9	25.0	30.6	45.1	63.8	72.3	75.0	75.1	60.9	56.2	45.0	30.3	50.4
RECORD MEAN	22.1	26.4	36.0	50.1	61.0	71.3	75.1	73.2	65.0	54.3	39.2	26.9	50.0
MAX	30.6	35.0	45.2	60.8	72.0	82.2	86.2	84.2	76.5	65.8	48.3	34.8	60.1
MIN	13.6	17.8	26.7	39.3	50.0	60.4	64.0	62.1	53.5	42.8	30.1	19.0	39.9

Heating Degree Days

MOLINE, IL

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1955-56	0	0	71	356	914	1259	1305	1096	890	537	155	26	6609
1956-57	0	13	109	189	790	1109	1492	902	861	448	191	23	6127
1957-58	0	2	136	467	800	989	1319	1345	898	435	125	41	6557
1958-59	4	21	93	289	685	1319	1523	1096	861	462	114	8	6475
#1959-60	4	1	100	462	1002	932	1212	1229	1392	376	203	13	6926
1960-61	2	1	55	348	700	1277	1355	954	789	614	242	12	6349
1961-62	1	0	121	309	722	1297	1510	1150	999	481	78	22	6690
1962-63	8	1	149	342	774	1292	1717	1315	734	370	186	15	6903
1963-64	0	16	83	108	653	1585	1129	1097	942	405	71	20	6109
1964-65	3	24	100	437	624	1241	1344	1096	1174	471	86	3	6603
1965-66	0	21	115	363	722	939	1568	1119	794	533	287	31	6492
1966-67	0	6	116	386	695	1137	1202	1289	802	404	305	10	6352
1967-68	21	33	136	424	860	1127	1354	1221	711	409	248	18	6562
1968-69	8	15	96	404	826	1247	1458	1032	1010	398	172	57	6723
1969-70	0	0	80	445	805	1253	1607	1120	967	419	118	21	6835
1970-71	0	2	92	350	764	1111	1556	1088	931	425	242	0	6561
1971-72	17	3	94	195	740	1026	1434	1280	893	504	155	25	6366
1972-73	8	7	80	459	824	1319	1170	1013	598	452	223	1	6154
1973-74	0	0	78	258	733	1274	1338	1061	812	360	235	32	6181
1974-75	0	8	180	349	739	1122	1235	1114	1058	593	117	14	6529
1975-76	9	0	162	297	594	1072							

Cooling Degree Days

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
1969	0	0	0	1	77	130	320	276	86	41	0	0	931
1970	0	0	0	32	119	198	341	256	105	15	0	0	1066
1971	0	0	0	9	32	355	203	225	212	44	0	0	1080
1972	0	0	0	3	102	165	312	294	138	6	0	0	1020
1973	0	0	0	2	2	226	312	323	103	27	0	0	995
1974	0	0	0	17	50	113	389	180	45	3	0	0	797
1975	0	0	0	1	85	241	325	319	44	29	0	0	1044

Precipitation

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1936									10.35	1.47	1.53		
1937			1.13	3.69	4.15	2.35	3.56	1.34	1.22	2.11	0.79	0.91	
1938	2.54	1.68	2.94	3.24	6.78	4.63	5.81	3.49	6.84	1.52	2.45	0.88	42.80
1939	1.67	1.70	2.68	3.56	2.28	3.99	2.45	5.59	0.94	2.96	0.94	0.30	29.06
1940	1.26	0.53	1.57	3.01	1.37	1.19	2.34	4.88	1.54	2.02	1.57	1.57	22.85
1941	2.86	0.53	1.38	4.49	3.49	6.46	1.67	1.66	5.45	9.41	1.25	1.43	40.08
1942	0.78	1.08	1.39	0.92	4.06	5.73	4.18	2.80	2.95	0.92	2.99	4.81	32.61
1943	1.36	1.84	1.49	5.61	6.38	4.55	2.10	4.31	1.23	3.24	1.77	0.41	34.29
1944	0.60	1.99	5.27	5.55	4.60	6.19	2.40	2.88	1.60	1.06	2.98	1.54	36.66
1945	0.44	0.90	3.36	3.88	5.07	2.52	1.39	3.86	4.74	1.09	1.71	1.69	30.65
1946	2.53	0.28	4.64	0.68	4.10	6.42	1.47	3.91	3.47	1.65	2.49	1.43	33.07
1947	2.08	0.23	2.10	7.36	3.70	5.99	4.08	0.52	5.13	0.88	1.92	1.64	35.63
1948	0.84	2.35	3.46	1.67	2.11	2.91	8.27	2.83	3.66	1.81	2.23	2.21	34.35
1949	3.28	1.78	2.76	1.10	1.82	5.45	3.40	7.12	1.96	2.27	0.71	2.91	34.56
1950	3.56	1.76	1.09	5.87	3.01	5.11	4.41	1.87	3.85	0.61	0.73	1.01	32.88
1951	1.05	2.56	5.06	3.60	5.90	6.65	5.60	8.00	3.47	3.75	1.68	1.28	48.60
1952	1.57	0.78	3.88	1.17	2.22	7.13	2.66	3.50	0.77	0.04	2.99	1.93	28.64
1953	1.04	2.72	2.68	1.73	3.18	3.43	4.88	1.05	1.79	1.00	1.07	1.90	26.47
1954	0.34	1.69	3.13	4.58	3.58	5.10	1.98	6.67	1.59	7.43	0.75	2.02	38.86
1955	2.03	1.88	1.20	5.33	2.30	3.65	1.02	2.44	2.40	2.70	0.60	0.54	26.09
1956	0.31	1.39	0.54	2.15	2.27	1.55	4.09	3.34	0.49	0.40	2.43	1.24	20.20
1957	1.33	1.57	2.90	3.49	4.11	2.52	4.47	3.17	1.16	2.00	2.38	3.82	32.92
1958	1.26	0.49	0.31	2.53	3.96	3.77	4.62	1.09	3.00	1.75	1.17	0.50	24.45
1959	1.41	1.77	3.06	4.75	5.31	3.62	4.48	3.90	4.29	5.59	1.50	2.42	42.10
1960	3.43	2.78	1.28	4.89	3.98	5.40	3.40	3.97	3.42	4.91	1.11	0.88	39.45
1961	0.31	1.20	4.48	2.19	1.98	3.69	7.63	2.37	11.00	4.53	4.94	1.58	45.90
1962	2.08	1.84	2.42	2.44	6.10	1.48	6.73	1.95	2.90	4.15	1.21	0.55	33.85
1963	0.91	0.37	3.29	4.24	2.36	1.02	8.78	4.02	2.38	0.63	1.84	0.94	30.78
1964	1.59	0.73	4.02	6.37	2.68	3.89	5.31	2.41	3.99	0.01	3.40	1.27	35.67
1965	4.08	0.97	2.52	7.92	4.04	2.07	4.78	9.31	8.27	0.88	1.93	2.82	49.59
1966	2.01	0.89	0.85	3.96	6.39	4.25	7.74	0.77	2.60	4.38	1.12	2.52	37.68
1967	2.00	1.11	1.68	4.91	1.70	8.15	4.15	3.62	4.99	6.23	2.26	1.56	42.36
1968	0.80	0.32	1.96	3.57	2.59	3.70	3.91	2.16	5.70	1.09	3.29	2.76	31.85
1969	3.28	0.21	2.25	3.11	3.40	6.97	11.39	2.00	2.50	4.63	0.53	1.52	41.79
1970	0.54	0.57	2.62	4.66	11.07	3.25	6.27	3.61	14.18	1.75	1.25	1.95	51.72
1971	1.79	1.57	1.99	1.86	3.14	2.36	11.22	0.35	4.54	2.64	2.21	4.77	38.44
1972	1.19	1.24	3.73	5.19	4.24	8.66	3.79	8.20	3.29	2.39	2.75	1.98	46.65
1973	2.53	1.94	7.43	11.30	6.96	6.58	2.63	2.30	6.74	3.06	1.15	3.74	56.36
1974	4.39	1.57	2.94	5.08	11.43	8.83	1.73	3.37	1.08	1.99	2.59	1.83	46.83
1975	1.50	1.75	3.30	2.88	3.23	3.50	2.71	3.23	1.99	0.90	2.98	0.98	28.95
RECORD MEAN	1.66	1.28	2.58	3.76	4.05	4.49	4.22	3.45	3.83	2.62	2.07	1.69	35.70

Snowfall

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1936-37	0.0	0.0	0.0	T	T				5.0	T	0.0	0.0	
1937-38	0.0	0.0	0.0	0.0	4.0	5.7	3.7	1.7	0.6	0.8	0.0	0.0	16.5
1938-39	0.0	0.0	0.0	0.1	0.4	3.1	11.8	6.1	2.5	T	0.0	0.0	24.0
1939-40	0.0	0.0	0.0	T	0.0	T	12.6	3.4	3.1	0.0	0.0	0.0	19.1
1940-41	0.0	0.0	0.0	0.0	2.3	1.4	14.5	3.9	11.5	0.0	0.0	0.0	33.6
1941-42	0.0	0.0	0.0	0.0	1.3	4.4	4.8	6.1	0.8	0.0	0.0	0.0	17.4
1942-43	0.0	0.0	0.1	T	1.6	7.6	11.1	2.5	5.3	T	0.0	0.0	28.2
1943-44	0.0	0.0	0.0	0.0	T	0.4	T	12.6	4.3	T	T	0.0	17.3
1944-45	0.0	0.0	0.0	0.0	0.3	13.9	5.8	4.3	0.7	T	T	0.0	25.0
1945-46	0.0	0.0	0.0	0.0	1.0	11.4	2.5	4.4	2.8	T	0.0	0.0	22.1
1946-47	0.0	0.0	0.0	T	0.0	5.3	8.5	4.3	7.2	T	0.0	0.0	25.3
1947-48	0.0	0.0	0.0	0.0	7.7	1.8	3.8	3.0	8.0	0.0	0.0	0.0	24.3
1948-49	0.0	0.0	0.0	0.0	T	6.2	5.3	2.5	0.9	1.1	0.0	0.0	16.0
1949-50	0.0	0.0	0.0	0.0	0.5	2.3	1.7	7.9	2.5	0.4	0.0	0.0	15.3
1950-51	0.0	0.0	0.0	0.0	2.1	7.3	7.1	4.9	17.0	1.4	0.0	0.0	39.8
1951-52	0.0	0.0	0.0	T	3.4	16.7	4.7	5.9	15.2	T	0.0	0.0	45.9
1952-53	0.0	0.0	0.0	0.0	T	2.5	12.1	6.2	7.1	0.4	0.0	0.0	28.3
1953-54	0.0	0.0	0.0	0.0	1.4	7.8	1.4	4.9	2.2	0.0	T	0.0	17.7
1954-55	0.0	0.0	0.0	T	3.7	16.2	11.2	6.1	8.8	0.0	0.0	0.0	46.0
1955-56	0.0	0.0	0.0	T	2.0	2.9	2.2	7.5	0.7	0.3	0.0	0.0	15.6
1956-57	0.0	0.0	0.0	0.0	2.1	6.5	11.8	0.7	6.9	6.5	0.0	0.0	34.5
1957-58	0.0	0.0	0.0	0.0	0.3	6.4	14.0	1.7	2.0	T	0.0	0.0	24.4
1958-59	0.0	0.0	0.0	0.0	0.9	8.1	15.1	3.6	13.9	1.7	0.0	0.0	43.3
1959-60	0.0	0.0	0.0	T	9.1	9.9	8.5	19.3	14.7	T	T	0.0	61.5
1960-61	0.0	0.0	0.0	0.0	T	5.5	3.4	2.5	2.4	2.5	0.0	0.0	16.3
1961-62	0.0	0.0	0.0	0.0	T	13.6	11.2	15.8	7.1	0.2	0.0	0.0	47.9
1962-63	0.0	0.0	0.0	0.2	T	3.1	14.7	5.8	7.3	0.0	0.0	0.0	31.1
1963-64	0.0	0.0	0.0	0.0	T	9.7	5.3	5.5	13.9	T	0.0	0.0	34.4
1964-65	0.0	0.0	0.0	0.0	2.1	11.7	10.2	7.4	16.2	0.0	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.3	5.7	6.0	0.8	0.7	0.1	T	0.0	13.6
1966-67	0.0	0.0	0.0	0.0	T	7.2	14.4	13.2	2.2	1.1	0.0	0.0	38.1
1967-68	0.0	0.0	0.0	6.6	0.3	3.2	8.6	2.8	1.1	T	0.0	0.0	22.6
1968-69	0.0	0.0	0.0	T	5.9	5.4	6.2	0.9	5.6	0.0	T	0.0	24.0
1969-70	0.0	0.0	0.0	0.0	1.5	15.4	7.2	6.1	12.7	8.3	0.0	0.0	51.2
1970-71	0.0	0.0	0.0	0.0	0.2	2.2	17.7	2.6	7.8	T	0.0	0.0	30.5
1971-72	0.0	0.0	0.0	0.0	5.9	0.3	11.8	13.7	19.8	2.6	0.0	0.0	54.1
1972-73	0.0	0.0	0.0	2.0	6.7	6.6	0.4	8.6	0.5	0.9	0.0	0.0	25.7
1973-74	0.0	0.0	0.0	0.0	T	11.4	12.7	7.4	3.0	0.6	0.0	0.0	35.1
1974-75	0.0	0.0	0.0	0.0	15.6	8.8	7.6	19.3	12.2	6.2	0.0	0.0	69.7
1975-76	0.0	0.0	0.0	0.0	9.9	2.5							
RECORD MEAN	0.0	0.0	T	0.2	2.2	6.6	7.6	5.9	6.6	0.8	T	0.0	29.9

# Indicates a station move or relocation of instruments. See Station Location table.

Record mean values above are means through the current year for the period beginning in 1930 for temperature, 1927 for precipitation, and 1933 for snowfall.

STATION LOCATION

MOLINE, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Telepsychrometer	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Elevation above Sea level: Pyranometer	Remarks
NE Corner, Moline AP 4.5 miles S of Moline Post Office	10/01/26	12/27/39		41° 27'	90° 31'	589	53	3	3				3			
Administration Building Quad City Airport	12/27/39	4/03/61	1200 feet W	41° 27'	90° 31'	g582	a25	b36	c36	d5		e5	15	f4		a - 54 feet for autographic record and 62 feet for direct reading until moved to field 11/13/58. b - 5 feet to 5/31/55 and 6/7/56 to 4/16/58. c - 5 feet to 12/1/54 and 6/7/56 to 4/16/58. d - Added 6/7/56; removed 3/1/60. e - 4 feet to 4/16/58. f - Commissioned 3/1/60. g - 589 feet to 3/1/60.
Terminal Building Quad City Airport	4/16/61	Present	200 feet SE	41° 27'	90° 31'	582	25	17	17		i16	h16	15	4		h - 5 feet to 7/22/63. i - Added 6/1/64.

Requests for additional climatic information should be addressed to: Director, National Climatic Center, Federal Building, Asheville, N. C. 28801

Sale Price: 20 cents per copy. Checks and money orders should be made payable to Department of Commerce, NOAA. Remittances and correspondence regarding this publication should be sent to: National Climatic Center, Federal Building, Asheville, N. C. 28801. Attn: Publications.

I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

Thomas D. Potter
Director, National Climatic Center

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l Climatological Data

ummary With Comparative Data

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1974

MOLINE, ILLINOIS

Narrative Climatological Summary

This area has a temperate continental climate, with a wide temperature range throughout the year. There are some intensely hot, usually humid, periods in summer and severely cold periods in winter. Maxima of 90° or higher have occured as frequently as on 55 days (1936), but in 1882 there were none. Zero or lower readings have occurred during every winter of record ranging from 37 times in 1874-75 to 1 time during 4 winters.

Freezing temperatures have occurred as late in spring as May 20 and as early in autumn as September 20. Precipitation usually is well distributed throughout the year. Normally the greatest amounts fall during the 177-day average crop growing season (April 21-October 14, inclusive). Substantial weather changes frequently occur at 3- or 4-day intervals, as a direct result of proximity to some of the most important storm tracks.

The locality is in the heart of the Corn Belt. Agricultural crops include many important staple products in addition to corn. Cattle, hogs, horses, and poultry produced in Iowa and Illinois rank high in the nation. Close to the Mississippi River there is large scale truck gardening and considerable dairying. Field production of grains and livestock attains greater development farther away from the large streams, where the countryside is rolling prairie. Damaging drouths are not common. This, together with the variety of agricultural products, has led to designating the section as the "Bread Basket" of America.

The climate is favorable for many industries as evidenced by the large number and variety of manufacturing and other enterprises which have located and developed in the community. Among these are some of the world's largest producers of agricultural machinery.

Records began in Davenport, Iowa, in May 1871, and have been continuous to date. At the Quad-City Airport, Moline, Illinois, records began in October 1926, but are not complete in the years 1935, 1936, and 1937. For a summary of data from Lock & Dam No. 15, Davenport, Iowa, please refer to IOWA CLIMATOLOGICAL DATA.

UNIVERSITY OF ILLINOIS-URBANA
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LOCAL CLIMATOLOGICAL DATA, ANNUAL SUMMAR
1974
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noaa NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA SERVICE / NATIONAL CLIMATIC CENTER ASHEVILLE, N.C.

Meteorological Data For The Current Year

Station: MOLINE, ILLINOIS QUAD CITY AIRPORT Standard time used: CENTRAL Latitude: 41° 27′ N Longitude 90° 31′ W Elevation (ground): 582 feet Year: 1974

Month	Temperature °F: Averages: Daily maximum	Daily minimum	Monthly	Extremes: Highest	Date	Lowest	Date	Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Total	Greatest in 24 hrs.	Date	Snow, Ice pellets: Total	Greatest in 24 hrs.	Date	Relative humidity, pct. (Local time): Hour 00	Hour 06	Hour 12	Hour 18
JAN	28.3	14.9	21.6	54	30	-26	12	1338	0	4.39	1.73	26-27	12.7	3.7	9-10	76	76	71	75
FEB	35.3	18.3	26.8	55	12	2	4	1061	0	1.57	1.42	21-22	7.4	5.8	21-22	73	75	58	66
MAR	48.3	28.7	38.5	73	3	2	24	812	0	2.94	1.02	29-30	3.0	1.1	12	73	77	61	64
APR	64.8	41.8	53.3	83	26	27	9	360	17	5.08	1.58	13-14	0.6	0.6	4	66	70	50	50
MAY	67.5	50.0	58.8	86	21	37	10	235	50	11.43	2.55	16-17	0.0	0.0		78	80	62	60
JUN	77.9	57.0	67.5	90	20	48	25	32	113	8.83	2.69	22	0.0	0.0	.	81	83	53	54
JUL	89.1	65.5	77.3	98	14	55	31	0	389	1.73	0.57	21-22	0.0	0.0		77	80	48	51
AUG	79.7	60.9	70.3	90	26	50	29	8	180	3.37	1.19	10	0.0	0.0		85	89	61	65
SEP	71.9	48.8	60.4	83	17	32	23	180	45	1.08	0.64	12	0.0	0.0		80	85	51	61
OCT	65.7	41.6	53.7	79	11	24	2	349	3	1.99	0.63	5-6	0.0	0.0		72	78	49	60
NOV	47.2	33.0	40.1	72	1	22	28	739	0	2.59	0.84	10-11	15.6	8.2	29-30	77	78	66	73
DEC	35.4	21.7	28.6	45	10	4	21	1122	0	1.83	0.48	6-7	8.8	3.3	31	82	83	75	80
YEAR	59.3	40.2	49.8	98	JUL 14	-26	JAN 12	6236	797	46.83	2.69	JUN 22	48.1	8.2	NOV 29-30	77	80	59	63

Month	Wind: Resultant: Direction	Speed m.p.h.	Average speed m.p.h.	Fastest mile: Speed m.p.h.	Direction	Date	Percent of possible sunshine	Average sky cover, tenths, sunrise to sunset	Number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperature °F: Maximum (b): 90° and above	32° and below	Minimum: 32° and below	0° and below	Average station pressure mb Elev. 594 feet m.s.l.
JAN	25	3.4	9.5	32	NW	31	49	6.8	8	5	18	11	6	0	4	0	14	26	9	998.0
FEB	35	2.1	12.6	34	NW	28	57	6.2	9	6	13	4	2	2	0	0	13	25	0	993.9
MAR	34	0.6	12.5	38	SW	3	51	7.6	5	4	22	11	1	3	2	0	2	21	0	992.6
APR	21	3.5	12.8	38	SW	12	56	6.9	2	16	12	11	0	8	0	0	0	6	0	991.9
MAY	17	0.9	10.6	45	SE	30	46	7.6	3	9	19	16	0	15	0	0	0	0	0	991.2
JUN	23	2.7	9.9	57	N	20	67	6.0	8	11	11	16	0	11	0	1	0	0	0	990.9
JUL	19	2.4	8.3	50	NW	21	79	4.5	14	11	6	10	0	9	0	17	0	0	0	994.6
AUG	20	1.9	7.6	29	E	10	57	6.9	3	11	17	13	0	9	3	1	0	0	0	995.3
SEP	24	3.3	8.4	30	NW	29	66	4.6	14	7	9	5	0	1	3	0	0	1	0	996.6
OCT	21	3.7	9.8	26	NW	6	62	5.2	11	8	12	10	0	3	1	0	0	8	0	1000.3
NOV	26	4.2	11.0	30	E	3	41	6.6	8	7	15	9	3	0	0	0	1	16	0	995.6
DEC	26	2.4	9.2	26	W	16	39	7.4	6	3	22	13	3	0	1	0	10	26	0	994.9
YEAR	23	2.0	10.2	57	N	JUN 20	57	6.4	91	98	176	129	15	61	14	19	40	129	9	994.7

Normals, Means, And Extremes

Month	Temperatures °F: Normal: Daily maximum	Daily minimum	Monthly	Extremes: Record highest	Year	Record lowest	Year	Normal Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Normal	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year	Snow, Ice pellets: Maximum monthly	Year	Maximum in 24 hrs.	Year
(a)				15		15					45		45		45		43		41	
J	30.0	13.0	21.5	63	1967	-26	1974	1349	0	1.66	4.39	1974	0.31	1961	2.07	1960	17.7	1971	16.4	1971
F	34.3	17.0	25.7	67	1972	-19	1972	1100	0	1.29	2.78	1960	0.17	1933	1.90	1948	19.3	1960	8.5	1960
M	45.0	26.4	35.7	80	1968	-19	1960	908	0	2.57	7.43	1973	0.31	1958	2.38	1944	19.8	1972	11.0	1972
A	61.3	39.8	50.6	91	1970	20	1971	436	0	3.82	11.30	1973	0.68	1946	5.81	1973	8.3	1970	8.2	1970
M	72.0	50.2	61.1	94	1967	26	1966	184	63	3.92	11.43	1974	0.55	1928	3.68	1970	0.3	1935	0.3	1935
J	81.4	60.2	70.8	99	1971	39	1972	20	194	4.42	8.83	1974	1.02	1963	5.02	1967	0.0		0.0	
J	85.2	63.8	74.5	100	1966	46	1971	0	298	4.58	11.39	1969	1.02	1955	5.41	1963	0.0		0.0	
A	83.8	62.0	72.9	97	1963	44	1963	11	255	3.37	9.31	1965	0.35	1971	4.60	1951	0.0		0.0	
S	76.0	53.2	64.6	98	1960	32	1974	79	67	3.84	14.18	1970	0.49	1956	6.29	1961	0.1	1942	0.1	1942
O	66.0	42.8	54.4	92	1963	19	1962	344	16	2.69	9.41	1941	0.01	1964	4.89	1954	6.6	1967	6.5	1967
N	48.1	30.2	39.2	77	1961	3	1964	774	0	1.87	6.47	1934	0.29	1933	2.73	1961	15.6	1974	8.2	1974
D	34.6	18.5	26.6	69	1970	-22	1963	1190	0	1.77	4.81	1942	0.23	1929	3.38	1942	16.7	1951	8.4	1954
YR	59.8	39.8	49.8	100	JUL 1966	-26	JAN 1974	6395	893	35.80	14.18	SEP 1970	0.01	OCT 1964	6.29	SEP 1961	19.8	MAR 1972	16.4	JAN 1971

Month	Relative humidity pct. (Local time): Hour 00	Hour 06	Hour 12	Hour 18	Wind: Mean speed m.p.h.	Prevailing direction	Fastest mile: Speed m.p.h.	Direction	Year	Pct. of possible sunshine	Mean sky cover, tenths, sunrise to sunset	Mean number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperatures °F: Max. (b): 90° and above	32° and below	Min.: 32° and below	0° and below	Average station pressure mb. Elev. 594 feet m.s.l.
(a)	14	14	14	14	31	12	46	46		31	32	41	41	41	42	42	41	40	14	14	14	14	2
J	72	73	66	69	10.7	WNW	56	SW	1946	48	6.6	8	7	16	9	2	*	3	0	18	29	9	997.3
F	73	74	63	66	11.0	WNW	58	NW	1948	50	6.4	7	6	15	8	2	*	2	0	13	26	3	996.6
M	74	77	61	62	12.0	WNW	66	SW	1954	50	6.8	7	7	17	11	2	2	2	0	4	22	*	992.3
A	74	79	56	56	12.2	NW	73	SW	1947	53	6.6	6	9	15	11	*	5	1	*	0	7	0	991.2
M	76	81	54	53	10.4	E	68	SW	1955	58	6.4	7	9	15	12	0	7	1	1	0	1	0	990.0
J	78	82	54	54	9.2	S	77	SW	1947	64	6.1	7	11	12	10	0	8	1	6	0	0	0	990.9
J	82	85	57	59	7.5	E	65	W	1953	71	5.4	10	12	9	9	0	9	1	7	0	0	0	994.1
A	84	89	57	61	7.2	E	61	SW	1931	70	5.3	10	11	10	8	0	7	2	5	0	0	0	995.1
S	84	88	58	68	8.2	S	66	NW	1945	65	5.2	12	8	10	9	0	5	2	2	0	*	0	996.3
O	76	82	55	63	9.1	S	56	SW	1949	61	5.2	12	8	11	7	*	2	2	*	0	5	0	997.6
N	76	80	63	70	10.7	WNW	60	W	1952	43	6.7	7	8	15	8	1	1	1	0	1	18	0	995.5
D	78	80	71	75	10.5	WNW	61	SW	1947	41	6.8	7	6	18	9	2	1	2	0	14	27	4	995.3
YR	77	81	60	63	9.9	WNW	77	SW	JUN 1947	58	6.1	100	102	163	112	9	47	19	22	50	135	16	994.4

Means and extremes above are from existing and comparable exposures. Annual extremes have been exceeded at other sites in the locality as follows:
Highest temperature 106 in August 1936.

(a) Length of record, years, through the current year unless otherwise noted, based on January data.
(b) 70° and above at Alaskan stations.
* Less than one half.
T Trace.

NORMALS - Based on record for the 1941-1970 period.
DATE OF AN EXTREME - The most recent in cases of multiple occurrence.
PREVAILING WIND DIRECTION - Record through 1963.
WIND DIRECTION - Numerals indicate tens of degrees clockwise from true north. 00 indicates calm.
FASTEST MILE WIND - Speed is fastest observed 1-minute value when the direction is in tens of degrees.

Average Temperature

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1935	22.8	29.2	41.0	47.2	54.8	66.4	79.1	74.2					
1936								80.1	68.6	53.6	37.6		
1937			34.4	48.9	63.0	70.9	76.4	77.4	65.8	51.6	36.4	24.6	
1938	22.4	34.4	44.8	52.4	61.4	69.0	77.0	76.3	67.5	58.6	40.4	27.0	52.6
1939	29.6	24.4	38.0	46.6	65.8	72.2	75.7	71.0	68.8	54.2	39.6	33.1	51.6
1940	10.0	26.2	32.3	47.8	57.8	72.6	76.9	72.1	64.3	57.0	36.0	31.5	48.7
1941	25.6	22.4	33.6	54.4	65.8	71.6	75.0	74.8	67.5	55.6	41.6	34.1	51.8
1942	22.5	24.6	39.5	55.3	60.8	71.0	75.0	71.7	63.0	53.2	39.7	21.0	49.8
1943	19.6	27.3	32.3	48.2	57.8	73.2	75.9	74.8	61.2	52.2	35.0	26.9	48.7
1944	30.1	27.4	32.6	46.4	66.2	73.6	73.8	73.4	66.2	53.4	42.5	20.2	50.5
1945	18.2	27.7	48.8	51.6	55.6	66.5	72.2	73.2	63.9	51.0	38.6	19.7	48.9
1946	25.6	29.5	48.0	53.5	57.8	70.2	74.8	69.2	64.8	57.8	40.8	31.4	52.0
1947	27.0	20.1	32.5	48.8	56.5	67.4	72.2	81.0	68.2	62.6	33.8	30.2	50.0
1948	17.5	24.4	35.6	55.2	57.8	69.0	75.1	73.6	67.6	51.1	41.3	29.0	49.8
1949	23.0	24.8	37.1	49.4	63.8	73.6	78.0	73.5	59.0	57.0	41.8	31.0	51.0
1950	25.9	24.7	32.9	43.6	62.0	69.6	71.1	68.5	64.1	59.2	33.8	19.1	47.9
1951	20.6	25.6	31.8	47.3	63.3	67.2	72.9	71.5	61.8	54.6	32.6	23.4	47.7
1952	25.1	31.4	33.5	52.1	60.6	75.7	76.4	71.1	64.7	46.6	41.4	30.5	50.7
1953	25.3	30.0	37.3	45.9	60.5	74.3	75.9	74.3	65.4	57.9	42.8	30.0	51.6
1954	23.3	36.3	34.0	53.7	56.1	74.6	76.2	72.0	67.5	53.1	40.7	29.1	51.4
1955	22.0	25.3	36.0	57.0	63.8	67.8	80.5	76.8	66.4	53.6	34.2	24.2	50.6
1956	22.7	26.9	36.1	47.1	62.6	74.0	73.2	73.3	63.4	59.0	38.4	28.9	50.5
1957	16.6	32.5	37.0	50.4	59.6	70.4	76.7	73.2	61.9	49.8	38.1	32.8	49.9
1958	22.2	16.7	35.7	50.5	62.2	66.3	71.3	73.5	64.4	56.0	42.0	22.2	48.6
1959	15.7	25.7	36.9	49.4	65.3	72.0	73.2	77.2	66.3	49.9	31.4	34.7	49.8
#1960	25.7	22.3	19.9	53.4	58.9	68.5	72.8	73.8	68.6	53.8	41.5	23.7	48.6
1961	21.1	30.7	39.3	44.3	58.1	71.9	74.2	73.9	66.1	55.4	40.8	23.0	49.9
1962	16.2	23.7	32.6	49.3	67.9	70.6	71.6	72.9	61.7	55.2	39.0	23.2	48.7
1963	9.7	17.9	41.1	52.9	60.0	73.5	74.8	70.8	64.9	64.4	43.1	13.8	48.9
1964	28.4	27.0	34.4	51.5	66.3	72.3	76.6	70.8	65.6	50.7	44.2	24.8	51.1
1965	21.4	25.7	26.9	49.2	65.9	69.6	74.9	71.1	63.5	53.6	40.7	34.5	49.8
1966	14.3	24.8	39.2	47.0	56.3	70.5	77.9	70.6	62.9	52.5	41.7	28.1	48.8
1967	26.0	18.7	39.0	51.6	56.4	70.9	71.4	67.7	62.1	52.1	36.1	28.5	48.4
1968	21.0	22.7	41.9	51.3	57.2	72.1	73.1	73.5	63.1	53.2	37.3	24.5	49.3
1969	17.9	27.9	32.2	51.6	61.7	67.1	75.0	73.7	64.9	51.7	37.9	24.3	48.8
1970	13.1	24.7	33.6	51.8	64.9	70.7	75.7	72.9	65.2	53.9	39.2	28.9	49.5
1971	14.8	25.9	34.7	50.9	58.0	76.6	70.7	71.9	68.7	59.9	40.0	31.6	50.3
1972	18.6	20.7	36.0	48.0	63.0	69.4	74.6	74.0	66.7	50.2	37.3	22.3	48.4
1973	27.1	28.7	45.4	49.7	57.6	72.3	74.9	75.1	65.7	57.3	40.4	23.7	51.5
1974	21.6	26.8	38.5	53.3	58.8	67.5	77.3	70.3	60.4	53.7	40.1	28.6	49.8
RECORD MEAN	22.0	26.4	36.1	50.2	61.0	71.3	75.2	73.2	65.1	54.3	39.1	26.9	50.0
MAX	30.5	35.1	45.3	61.0	72.0	82.2	86.2	84.2	76.6	65.7	48.1	34.8	60.1
MIN	13.5	17.7	26.8	39.4	50.0	60.3	64.1	62.1	53.6	42.8	30.0	19.0	39.9

Heating Degree Days

MOLINE, IL

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1954-55	0	2	58	395	722	1108	1329	1107	891	236	100	44	5992
1955-56	0	0	71	356	914	1259	1305	1096	890	537	155	26	6609
1956-57	0	13	109	189	790	1109	1492	902	861	448	191	23	6127
1957-58	0	2	136	467	800	989	1319	1345	898	435	125	41	6557
1958-59	4	21	93	289	685	1319	1523	1096	861	462	114	8	6475
#1959-60	4	1	100	462	1002	932	1212	1229	1392	376	203	13	6926
1960-61	2	1	55	348	700	1277	1355	954	789	614	242	12	6349
1961-62	1	0	121	309	722	1297	1510	1150	999	481	78	22	6690
1962-63	8	1	149	342	774	1292	1717	1315	734	370	186	15	6903
1963-64	0	16	83	108	653	1585	1129	1097	942	405	71	20	6109
1964-65	3	24	100	437	624	1241	1344	1096	1174	471	86	3	6603
1965-66	0	21	115	363	722	939	1568	1119	794	533	287	31	6492
1966-67	0	6	116	386	695	1137	1202	1289	802	404	305	10	6352
1967-68	21	33	136	424	860	1127	1354	1221	711	409	248	18	6562
1968-69	8	15	96	404	826	1247	1458	1032	1010	398	172	57	6723
1969-70	0	0	80	445	805	1253	1607	1120	967	419	118	21	6835
1970-71	0	2	92	350	764	1111	1556	1088	931	425	242	0	6561
1971-72	17	3	94	195	740	1026	1434	1280	893	504	155	25	6366
1972-73	8	7	80	459	824	1319	1170	1013	598	452	223	1	6154
1973-74	0	0	78	258	733	1274	1338	1061	812	360	235	32	6181
1974-75	0	8	180	349	739	1122							

Cooling Degree Days

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
1969	0	0	0	1	77	130	320	276	86	41	0	0	931
1970	0	0	0	32	119	198	341	256	105	15	0	0	1066
1971	0	0	0	9	32	355	203	225	212	44	0	0	1080
1972	0	0	0	3	102	165	312	294	138	6	0	0	1020
1973	0	0	0	2	2	226	312	323	103	27	0	0	995
1974	0	0	0	17	50	113	389	180	45	3	0	0	797

Precipitation

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1935	1.49	1.26	2.83	2.04	6.16	5.74	1.73	2.95					
1936									10.35	1.47	1.53		
1937			1.13	3.69	4.15	2.35	3.56	1.34	1.22	2.11	0.79	0.91	
1938	2.54	1.68	2.94	3.24	6.78	4.63	5.81	3.49	6.84	1.52	2.45	0.88	42.80
1939	1.67	1.70	2.68	3.56	2.28	3.99	2.45	5.59	0.94	2.96	0.94	0.30	29.06
1940	1.26	0.53	1.57	3.01	1.37	1.19	2.34	4.88	1.54	2.02	1.57	1.57	22.85
1941	2.86	0.53	1.38	4.49	3.49	6.46	1.67	1.66	5.45	9.41	1.25	1.43	40.08
1942	0.78	1.08	1.39	0.92	4.06	5.73	4.18	2.80	2.95	0.92	2.99	4.81	32.61
1943	1.36	1.84	1.49	5.61	6.38	4.55	2.10	4.31	1.23	3.24	1.77	0.41	34.29
1944	0.60	1.99	5.27	5.55	4.60	6.19	2.40	2.88	1.60	1.06	2.98	1.54	36.66
1945	0.44	0.90	3.36	3.88	5.07	2.52	1.39	3.86	4.74	1.09	1.71	1.69	30.65
1946	2.53	0.28	4.64	0.68	4.10	6.42	1.47	3.91	3.47	1.65	2.49	1.43	33.07
1947	2.08	0.23	2.10	7.36	3.70	5.99	4.08	0.52	5.13	0.88	1.92	1.64	35.63
1948	0.84	2.35	3.46	1.67	2.11	2.91	8.27	2.83	3.66	1.81	2.23	2.21	34.35
1949	3.28	1.78	2.76	1.10	1.82	5.45	3.40	7.12	1.96	2.27	0.71	2.91	34.56
1950	3.56	1.76	1.09	5.87	3.01	5.11	4.41	1.87	3.85	0.61	0.73	1.01	32.88
1951	1.05	2.56	5.06	3.60	5.90	6.65	5.60	8.00	3.47	3.75	1.68	1.28	48.60
1952	1.57	0.78	3.88	1.17	2.22	7.13	2.66	3.50	0.77	0.04	2.99	1.93	28.64
1953	1.04	2.72	2.68	1.73	3.18	3.43	4.88	1.05	1.79	1.00	1.07	1.90	26.47
1954	0.34	1.69	3.13	4.58	3.58	5.10	1.98	6.67	1.59	7.43	0.75	2.02	38.86
1955	2.03	1.88	1.20	5.33	2.30	3.65	1.02	2.44	2.40	2.70	0.60	0.54	26.09
1956	0.31	1.39	0.54	2.15	2.27	1.55	4.09	3.34	0.49	0.40	2.43	1.24	20.20
1957	1.33	1.57	2.90	3.49	4.11	2.52	4.47	3.17	1.16	2.00	2.38	3.82	32.92
1958	1.26	0.49	0.31	2.53	3.96	3.77	4.62	1.09	3.00	1.75	1.17	0.50	24.45
1959	1.41	1.77	3.06	4.75	5.31	3.62	4.48	3.90	4.29	5.59	1.50	2.42	42.10
1960	3.43	2.78	1.28	4.89	3.98	5.40	3.40	3.97	3.42	4.91	1.11	0.88	39.45
1961	0.31	1.20	4.48	2.19	1.98	3.69	7.63	2.37	11.00	4.53	4.94	1.58	45.90
1962	2.08	1.84	2.42	2.44	6.10	1.48	6.73	1.95	2.90	4.15	1.21	0.55	33.85
1963	0.91	0.37	3.29	4.24	2.36	1.02	8.78	4.02	2.38	0.63	1.84	0.94	30.78
1964	1.59	0.73	4.02	6.37	2.68	3.89	5.31	2.41	3.99	0.01	3.40	1.27	35.67
1965	4.08	0.97	2.52	7.92	4.04	2.07	4.78	9.31	8.27	0.88	1.93	2.82	49.59
1966	2.01	0.89	0.85	3.96	6.39	4.25	7.74	0.77	2.80	4.38	1.12	2.52	37.68
1967	2.00	1.11	1.68	4.91	1.70	8.15	4.15	3.62	4.99	6.23	2.26	1.56	42.36
1968	0.80	0.32	1.96	3.57	2.59	3.70	3.91	2.16	5.70	1.09	3.29	2.76	31.85
1969	3.28	0.21	2.25	3.11	3.40	6.97	11.39	2.00	2.50	4.63	0.53	1.52	41.79
1970	0.54	0.57	2.62	4.66	11.07	3.25	6.27	3.61	14.18	1.75	1.25	1.95	51.72
1971	1.79	1.57	1.99	1.86	3.14	2.36	11.22	0.35	4.54	2.64	2.21	4.77	38.44
1972	1.19	1.24	3.73	5.19	4.24	8.66	3.79	8.20	3.29	2.39	2.75	1.98	46.65
1973	2.53	1.94	7.43	11.30	6.96	6.58	2.63	2.30	6.74	3.06	1.15	3.74	56.36
1974	4.39	1.57	2.94	5.08	11.43	8.83	1.73	3.37	1.08	1.99	2.59	1.83	46.83
RECORD MEAN	1.67	1.27	2.57	3.78	4.07	4.51	4.25	3.45	3.87	2.66	2.05	1.71	35.86

Snowfall

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1935-36	0.0	0.0	0.0	0.0								0.0	
1936-37	0.0	0.0	0.0	T	T				5.0	T	0.0	0.0	
1937-38	0.0	0.0	0.0	0.0	4.0	5.7	3.7	1.7	0.6	0.8	0.0	0.0	16.5
1938-39	0.0	0.0	0.0	0.1	0.4	3.1	11.8	6.1	2.5	T	0.0	0.0	24.0
1939-40	0.0	0.0	0.0	T	0.0	T	12.6	3.4	3.1	0.0	0.0	0.0	19.1
1940-41	0.0	0.0	0.0	0.0	2.3	1.4	14.5	3.9	11.5	0.0	0.0	0.0	33.6
1941-42	0.0	0.0	0.0	0.0	1.3	4.4	4.8	6.1	0.8	0.0	0.0	0.0	17.4
1942-43	0.0	0.0	0.1	T	1.6	7.6	11.1	2.5	5.3	T	0.0	0.0	28.2
1943-44	0.0	0.0	0.0	0.0	T	0.4	T	12.6	4.3	T	T	0.0	17.3
1944-45	0.0	0.0	0.0	0.0	0.3	13.9	5.8	4.3	0.7	T	T	0.0	25.0
1945-46	0.0	0.0	0.0	0.0	1.0	11.4	2.5	4.4	2.8	T	0.0	0.0	22.1
1946-47	0.0	0.0	0.0	T	0.0	5.3	8.5	4.3	7.2	T	0.0	0.0	25.3
1947-48	0.0	0.0	0.0	0.0	7.7	1.8	3.8	3.0	8.0	0.0	0.0	0.0	24.3
1948-49	0.0	0.0	0.0	0.0	T	6.2	5.3	2.5	0.9	1.1	0.0	0.0	16.0
1949-50	0.0	0.0	0.0	0.0	0.5	2.3	1.7	7.9	2.5	0.4	0.0	0.0	15.3
1950-51	0.0	0.0	0.0	0.0	2.1	7.3	7.1	4.9	17.0	1.4	0.0	0.0	39.8
1951-52	0.0	0.0	0.0	T	3.4	16.7	4.7	5.9	15.2	T	0.0	0.0	45.9
1952-53	0.0	0.0	0.0	0.0	T	2.5	12.1	6.2	7.1	0.4	0.0	0.0	28.3
1953-54	0.0	0.0	0.0	0.0	1.4	7.8	1.4	4.9	2.2	0.0	T	0.0	17.7
1954-55	0.0	0.0	0.0	T	3.7	16.2	11.2	6.1	8.8	0.0	0.0	0.0	46.0
1955-56	0.0	0.0	0.0	T	2.0	2.9	2.2	7.5	0.7	0.3	0.0	0.0	15.6
1956-57	0.0	0.0	0.0	0.0	2.1	6.5	11.8	0.7	6.9	6.5	0.0	0.0	34.5
1957-58	0.0	0.0	0.0	0.0	0.3	6.4	14.0	1.7	2.0	T	0.0	0.0	24.4
1958-59	0.0	0.0	0.0	0.0	0.9	8.1	15.1	3.6	13.9	1.7	0.0	0.0	43.3
1959-60	0.0	0.0	0.0	T	9.1	9.9	8.5	19.3	14.7	T	T	0.0	61.5
1960-61	0.0	0.0	0.0	0.0	T	5.5	3.4	2.5	2.4	2.5	0.0	0.0	16.3
1961-62	0.0	0.0	0.0	0.0	T	13.6	11.2	15.8	7.1	0.2	0.0	0.0	47.9
1962-63	0.0	0.0	0.0	0.2	T	3.1	14.7	5.8	7.3	0.0	0.0	0.0	31.1
1963-64	0.0	0.0	0.0	0.0	T	9.7	5.3	5.5	13.9	T	0.0	0.0	34.4
1964-65	0.0	0.0	0.0	0.0	2.1	11.7	10.2	7.4	16.2	0.0	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.3	5.7	6.0	0.8	0.7	0.1	T	0.0	13.6
1966-67	0.0	0.0	0.0	0.0	T	7.2	14.4	13.2	2.2	1.1	0.0	0.0	38.1
1967-68	0.0	0.0	0.0	6.6	0.3	3.2	8.6	2.8	1.1	T	0.0	0.0	22.6
1968-69	0.0	0.0	0.0	T	5.9	5.4	6.2	0.9	5.6	0.0	T	0.0	24.0
1969-70	0.0	0.0	0.0	0.0	1.5	15.4	7.2	6.1	12.7	8.3	0.0	0.0	51.2
1970-71	0.0	0.0	0.0	0.0	0.2	2.2	17.7	2.6	7.8	T	0.0	0.0	30.5
1971-72	0.0	0.0	0.0	0.0	5.9	0.3	11.8	13.7	19.8	2.6	0.0	0.0	54.1
1972-73	0.0	0.0	0.0	2.0	6.7	6.6	0.4	8.6	0.5	0.9	0.0	0.0	25.7
1973-74	0.0	0.0	0.0	0.0	T	11.4	12.7	7.4	3.0	0.6	0.0	0.0	35.1
1974-75	0.0	0.0	0.0	0.0	15.6	8.8							
RECORD MEAN	0.0	0.0	T	0.2	2.0	6.7	7.6	5.6	6.5	0.7	T	0.0	29.3

# Indicates a station move or relocation of instruments. See Station Location table.

Record mean values above are means through the current year for the period beginning in 1930 for temperature, 1927 for precipitation, and 1933 for snowfall.

STATION LOCATION

MOLINE, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Elevation above Ground: Extreme thermometers	Elevation above Ground: Psychrometer	Elevation above Ground: Telepsychrometer	Elevation above Ground: Tipping bucket rain gage	Elevation above Ground: Weighing rain gage	Elevation above Ground: 8" rain gage	Elevation above Ground: Hygrothermometer	Elevation above Sea level: Pyranometer	Remarks
NE Corner, Moline AP 4.5 miles S of Moline Post Office	10/01/26	12/27/39		41° 27'	90° 31'	589	53	3	3				3			
Administration Building Quad City Airport	12/27/39	4/03/61	1200 feet W	41° 27'	90° 31'	g582	a25	b36	c36	d5		e5	15	f4		a - 54 feet for autographic record and 62 feet for direct reading until moved to field 11/13/58. b - 5 feet to 5/31/55 and 6/7/56 to 4/16/58. c - 5 feet to 12/1/54 and 6/7/56 to 4/16/58. d - Added 6/7/56; removed 3/1/60. e - 4 feet to 4/16/58. f - Commissioned 3/1/60. g - 589 feet to 3/1/60.
Terminal Building Quad City Airport	4/16/61	Present	200 feet SE	41° 27'	90° 31'	582	25	17	17		i16	h16	15	4		h - 5 feet to 7/22/63. i - Added 6/1/64.

Requests for additional climatic information should be addressed to: Director, National Climatic Center, Federal Building, Asheville, N. C. 28801

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LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

MOLINE, ILLINOIS

Mol

1973

U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

NARRATIVE CLIMATOLOGICAL SUMMARY

This area has a temperate continental climate, with a wide temperature range throughout the year. There are some intensely hot, usually humid, periods in summer and severely cold periods in winter. Maxima of 90° or higher have occurred as frequently as on 53 days (1936), but in 1882 there were none. Zero or lower readings have occurred during every winter of record.

Freezing temperatures have occurred as late in spring as May 22 and as early in autumn as September 18. Precipitation usually is well distributed throughout the year. Normally the greatest amounts fall during the 180-day average crop growing season (April 19-October 15, inclusive). Substantial weather changes frequently occur at 3-or 4-day intervals, as a direct result of proximity to some of the most important storm tracks.

The locality is in the heart of the Corn Belt. Agricultural crops include many important staple products in addition to corn. Cattle, hogs, horses, and poultry produced in Iowa and Illinois rank high in the nation. Close to the Mississippi River there is large scale truck gardening and considerable dairying. Field production of grains and livestock attains greater development farther away from the large streams, where the countryside is rolling prairie. Damaging drouths are not common. This, together with the variety of agricultural products, has led to designating the section as the "Bread Basket" or the "Garden Spot" of America.

The climate is favorable for many industries as evidenced by the large number and variety of manufacturing and other enterprises which have located and developed in the community. Among these are some of the world's largest producers of agricultural machinery.

Records began in Davenport, Iowa, in May 1871, and have been continuous to date. At the Quad-City Airport, Moline, Illinois, records began in October 1926, but are not complete in the years 1935. 1936, and 1937. For a summary of data from Lock & Dam No. 15, Davenport, Iowa, please refer to IOWA CLIMATOLOGICAL DATA.

UNIVERSITY OF ILLINOIS-URBANA
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LOCAL CLIMATOLOGICAL DATA, ANNUAL SUMMAR
1973
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METEOROLOGICAL DATA FOR THE CURRENT YEAR

Station: MOLINE, ILLINOIS — QUAD CITY AIRPORT — Standard time used: CENTRAL — Latitude: 41° 27' N — Longitude: 90° 31' W — Elevation (ground): 582 feet — Year: 1973

Month	Temperature: Averages: Daily maximum	Temperature: Averages: Daily minimum	Temperature: Averages: Monthly	Temperature: Extremes: Highest	Temperature: Extremes: Date	Temperature: Extremes: Lowest	Temperature: Extremes: Date	Degree days (Base 65°): Heating	Degree days (Base 65°): Cooling	Precipitation: Total	Precipitation: Greatest in 24 hrs.	Precipitation: Date	Snow, Ice pellets: Total	Snow, Ice pellets: Greatest in 24 hrs.	Snow, Ice pellets: Date	Relative humidity: Hour 00 (Local time)	Relative humidity: Hour 06 (Local time)	Relative humidity: Hour 12 (Local time)	Relative humidity: Hour 18 (Local time)	Wind &: Resultant: Direction	Wind &: Resultant: Speed	Wind &: Average speed	Wind &: Fastest mile: Speed	Wind &: Fastest mile: Direction #	Wind &: Fastest mile: Date	Percent of possible sunshine	Average sky cover sunrise to sunset	Number of days: Sunrise to sunset: Clear	Number of days: Sunrise to sunset: Partly cloudy	Number of days: Sunrise to sunset: Cloudy	Number of days: Precipitation .01 inch or more	Number of days: Snow, Ice pellets 1.0 inch or more	Number of days: Thunderstorms	Number of days: Heavy fog	Number of days: Temperatures: Maximum ‡: 90° and above	Number of days: Temperatures: Maximum: 32° and below	Number of days: Temperatures: Minimum: 32° and below	Number of days: Temperatures: Minimum: 0° and below	Average daily solar radiation - langleys
JAN	34.5	19.6	27.1	57	16	-2	10+	1170	0	2.53	0.94	18	0.4	0.2	3	74	75	66	70	26	4.0	11.6	31	W	3	47	7.0	6	6	19	6	0	0	0	0	12	25	2	
FEB†	36.3	21.0	28.7	55	24	-15	17	1013	0	1.94	0.73	1-2	8.6	† 4.6	14-15	79	78	69	73	32	1.3	10.3	26	NW	21	53	6.4	8	4	16	8	3	0	2	0	8	23	3	
MAR	53.8	37.0	45.4	70	14	24	22	598	0	7.43	2.19	6-7	0.5	0.5	16-17	77	82	68	67	08	3.5	11.4	38	SW	14	40	7.7	6	4	21	17	0	2	7	0	0	8	0	
APR	58.3	41.1	49.7	75	15	24	11	452	2	11.30	5.81	20-21	0.9	0.9	9-10	76	80	62	61	21	0.9	12.0	32	SE	21	49	7.2	7	6	17	15	0	4	2	0	0	6	0	
MAY	67.5	47.7	57.6	78	31+	35	17+	223	2	6.96	2.23	26-27	0.0	0.0		80	82	57	58	26	3.5	10.7	34	NW	11	53	6.6	7	9	15	17	0	7	0	0	0	0	0	
JUN	82.9	61.6	72.3	97	16	51	29	1	226	6.58	3.45	16	0.0	0.0		79	81	54	55	23	5.3	10.5	57	SE	18	73	5.1	10	10	10	8	0	7	0	5	0	0	0	
JUL	84.6	65.2	74.9	94	8	57	15	0	312	2.63	0.96	4	0.0	0.0		78	81	57	58	22	2.1	8.3	25	N	3	63	5.9	7	14	10	10	0	7	0	6	0	0	0	
AUG	85.6	64.6	75.1	95	27	52	3	0	323	2.30	1.04	13	0.0	0.0		82	87	55	62	19	3.3	8.1	26	SW	8	64	4.8	10	17	4	8	0	5	1	9	0	0	0	
SEP	74.3	57.0	65.7	91	1	40	18	78	103	6.74	1.66	3-4	0.0	0.0		85	87	62	73	14	1.9	8.5	36	S	24	44	7.4	4	6	20	13	0	7	0	1	0	0	0	
OCT	68.0	46.6	57.3	82	9	34	30	258	27	3.06	0.67	3-4	0.0	0.0		79	83	58	66	23	2.8	8.7	26	NW	10	56	5.9	9	7	15	12	0	4	1	0	0	0	0	
NOV	49.0	31.8	40.4	62	13+	15	10	733	0	1.15	0.58	20	T	T	28 +	75	77	62	70	27	1.1	9.9	33	SE	20	37	7.3	6	5	19	9	0	1	5	0	1	18	0	
DEC	30.9	16.4	23.7	65	2	-11	21	1274	0	3.74	1.41	4-5	11.4	3.5	18-19	80	79	72	75	34	0.8	11.8	33	SE	4	40	7.2	7	5	19	13	5	1	1	0	18	27	5	
YEAR	60.5	42.5	51.5	97	JUN. 16	-15	FEB. 17	5800	995	56.36	5.81	APR. 20-21	21.8	4.6	FEB. 14-15	79	81	62	66	23	1.5	10.2	57	SE	JUN. 18	53	6.5	87	93	185	136	8	45	19	21	39	107	10	

† DATA CORRECTED AFTER PUBLICATION OF THE MONTHLY ISSUE.

NORMALS, MEANS, AND EXTREMES

Month	Temperature: Normal: Daily maximum	Temperature: Normal: Daily minimum	Temperature: Normal: Monthly	Temperature: Extremes: Record highest	Temperature: Extremes: Year	Temperature: Extremes: Record lowest	Temperature: Extremes: Year	Normal heating degree days (Base 65°)	Precipitation: Normal total	Precipitation: Maximum monthly	Precipitation: Year	Precipitation: Minimum monthly	Precipitation: Year	Precipitation: Maximum in 24 hrs.	Precipitation: Year	Snow, Ice pellets: Mean total	Snow, Ice pellets: Maximum monthly	Snow, Ice pellets: Year	Snow, Ice pellets: Maximum in 24 hrs.	Snow, Ice pellets: Year	Relative humidity: Hour 00 (Local time)	Relative humidity: Hour 06 (Local time)	Relative humidity: Hour 12 (Local time)	Relative humidity: Hour 18 (Local time)	Wind &: Mean speed	Wind &: Prevailing direction	Wind &: Fastest mile: Speed	Wind &: Fastest mile: Direction #	Wind &: Fastest mile: Year	Pct. of possible sunshine	Mean sky cover sunrise to sunset	Mean number of days: Sunrise to sunset: Clear	Mean number of days: Sunrise to sunset: Partly cloudy	Mean number of days: Sunrise to sunset: Cloudy	Mean number of days: Precipitation .01 inch or more	Mean number of days: Snow, Ice pellets 1.0 inch or more	Mean number of days: Thunderstorms	Mean number of days: Heavy fog	Mean number of days: Temperatures: Max. ‡: 90° and above	Mean number of days: Temperatures: Max.: 32° and below	Mean number of days: Temperatures: Min.: 32° and below	Mean number of days: Temperatures: Min.: 0° and below	Average daily solar radiation - langleys
(a)	(b)	(b)	(b)	14		14		(b)	(b)	44		44		44		41	42		40		13	13	13	13	30	12	45	45		30	31	40	40	40	41	41	40	39	13	13	13	13	
J	30.0	13.0	21.5	63	1967	-26	1963	1349	1.66	4.08	1965	0.31	1961+	2.07	1960	7.4	17.7	1971	16.4	1971	72	73	65	69	10.7	WNW	56	SW	1946	48	6.6	8	7	16	9	2	*	3	0	19	29	9	
F	34.3	17.0	25.7	67	1972	-19	1972	1100	1.29	2.78	1960	0.17	1933	1.90	1948	5.5	19.3	1960	8.5	1960	73	74	64	66	11.0	WNW	58	NW	1948	49	6.4	7	6	15	8	2	*	2	0	13	27	4	
M	45.0	26.4	35.7	80	1968	-19	1960	908	2.57	7.43	1973	0.31	1958	2.38	1944	6.6	19.8	1972	11.0	1972	74	77	61	62	12.0	WNW	66	SW	1954+	50	6.8	7	8	16	11	2	2	2	0	4	22	*	
A	61.3	39.8	50.6	91	1970	20	1971	436	3.82	11.30	1973	0.68	1946	5.81	1973	0.7	8.3	1970	8.2	1970	74	80	56	56	12.2	NW	73	SW	1947	53	6.6	7	8	15	11	*	5	1	*	0	7	0	
M	72.0	50.2	61.1	94	1967	26	1966	184	3.92	11.07	1970	0.55	1928	3.68	1970	T	0.3	1935	0.3	1935	76	81	53	53	10.4	E	68	SW	1955	58	6.3	8	8	15	12	0	7	1	1	0	1	0	
J	81.4	60.2	70.8	99	1971	39	1972	20	4.42	8.66	1972	1.02	1963	5.02	1967	0.0	0.0		0.0		78	82	54	54	9.2	S	77	SW	1947	64	6.1	7	10	13	10	0	8	1	7	0	0	0	
J	85.2	63.8	74.5	100	1966	46	1971	0	4.58	11.39	1969	1.02	1955	5.41	1963	0.0	0.0		0.0		82	85	58	60	7.5	E	65	W	1953	71	5.4	10	12	9	9	0	9	1	7	0	0	0	
A	83.8	62.0	72.9	97	1963	44	1963	11	3.37	9.31	1965	0.35	1971	4.60	1951	0.0	0.0		0.0		84	89	57	61	7.2	E	61	SW	1931	70	5.2	11	10	10	8	0	7	2	5	0	0	0	
S	76.0	53.2	64.6	98	1960	32	1967+	79	3.84	14.18	1970	0.49	1956	6.29	1961	T	0.1	1942	0.1	1942	84	88	59	68	8.2	S	66	NW	1945	65	5.2	12	8	10	9	0	5	2	2	0	*	0	
O	66.0	42.8	54.4	92	1963	19	1962	344	2.69	9.41	1941	0.01	1964	4.89	1954	0.2	6.6	1967	6.5	1967	77	82	55	64	9.1	S	56	SW	1949	61	5.2	12	8	11	7	*	2	2	*	0	5	0	
N	48.1	30.2	39.2	77	1961	3	1964	774	1.87	6.47	1934	0.29	1933	2.73	1961	1.7	9.1	1959	5.7	1959	76	80	63	70	10.7	WNW	60	W	1952	43	6.7	7	7	16	7	1	1	1	0	1	18	0	
D	34.6	18.5	26.6	69	1970	-22	1963	1190	1.77	4.81	1942	0.23	1929	3.38	1942	6.7	16.7	1951	8.4	1954	78	79	71	75	10.6	WNW	61	SW	1947	41	6.8	7	6	18	9	2	1	2	0	14	27	4	
YR	59.8	39.8	49.8	100	JUL. 1966	-26	JAN. 1963	6395	35.80	14.18	SEP. 1970	0.01	OCT. 1964	6.29	SEP. 1961	28.8	19.8	MAR. 1972	16.4	JAN. 1971	77	81	60	63	9.9	WNW	77	SW	JUN. 1947	58	6.1	103	98	164	111	9	47	20	22	50	135	17	

Means and extremes above are from existing and comparable exposures. Annual extremes have been exceeded at other sites in the locality as follows:
Highest temperature 106 in August 1936.

(a) Length of record, years, based on January data. Other months may be for more or fewer years if there have been breaks in the record.
(b) Climatological normals (1941-1970).
* Less than one half.
\+ Also on earlier dates, months, or years.
T Trace, an amount too small to measure.
— Below zero temperatures are preceded by a minus sign.
‡ ≥ 70° at Alaskan stations.

The prevailing direction for wind in the Normals, Means, and Extremes table is from records through 1963.

Unless otherwise indicated, dimensional units used in this bulletin are: temperature in degrees F.; precipitation, including snowfall, in inches; wind movement in miles per hour; and relative humidity in percent. Heating degree day totals are the sums of negative departures of average daily temperatures from 65° F. Cooling degree day totals are the sums of positive departures of average daily temperatures from 65° F. Sleet was included in snowfall totals beginning with July 1948. The term "ice pellets" includes solid grains of ice (sleet) and particles consisting of snow pellets encased in a thin layer of ice. Heavy fog reduces visibility to 1/4 mile or less.

Sky cover is expressed in a range of 0 for no clouds or obscuring phenomena to 10 for complete sky cover. The number of clear days is based on average cloudiness 0-3, partly cloudy days 4-7, and cloudy days 8-10 tenths.

Solar radiation data are the averages of direct and diffuse radiation on a horizontal surface. The langley denotes one gram calorie per square centimeter.

& Figures instead of letters in a direction column indicate direction in tens of degrees from true North; i.e., 09 - East, 18 - South, 27 - West, 36 - North, and 00 - Calm. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations. If figures appear in the direction column under "Fastest mile" the corresponding speeds are fastest observed 1-minute values.

\# To 8 compass points only.

AVERAGE TEMPERATURE

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1934	30.0	22.2	33.8	50.4	68.4	78.1	79.2	71.7	62.5	56.3	44.3	22.4	51.6
1935	22.8	29.2	41.0	47.2	54.8	66.4	79.1	74.2					
1936								80.1	68.6	53.6	37.6		
1937			34.4	48.9	63.0	70.9	76.4	77.4	65.8	51.6	36.4	24.6	
1938	22.4	34.4	44.8	52.4	61.4	69.0	77.0	76.3	67.5	58.6	40.4	27.0	52.6
1939	29.6	24.4	38.0	46.6	65.8	72.2	75.7	71.0	68.8	54.2	39.6	33.1	51.6
1940	10.0	26.2	32.3	47.8	57.8	72.6	76.9	72.1	64.3	57.0	36.0	31.5	48.7
1941	25.6	22.4	33.6	54.4	65.8	71.6	75.0	74.8	67.5	55.6	41.6	34.1	51.8
1942	22.5	24.6	39.5	55.3	60.8	71.0	75.0	71.7	63.0	53.2	39.7	21.0	49.8
1943	19.6	27.3	32.3	48.2	57.8	73.2	75.9	74.8	61.2	52.2	35.0	26.9	48.7
1944	30.1	27.4	32.6	46.4	66.2	73.6	73.8	73.4	66.2	53.4	42.5	20.2	50.5
1945	18.2	27.7	48.8	51.6	55.6	66.5	72.2	73.2	63.9	51.0	38.6	19.7	48.9
1946	25.6	29.5	48.0	53.5	57.8	70.2	74.8	69.2	64.8	57.8	40.8	31.4	52.0
1947	27.0	20.1	32.5	48.8	56.5	67.4	72.2	81.0	68.2	62.6	33.8	30.2	50.0
1948	17.5	24.4	35.6	55.2	57.8	69.0	75.1	73.6	67.6	51.1	41.3	29.0	49.8
1949	23.0	24.8	37.1	49.4	63.8	73.6	78.0	73.5	59.0	57.0	41.8	31.0	51.0
1950	25.9	24.7	32.9	43.6	62.0	69.6	71.1	68.5	64.1	59.2	33.8	19.1	47.9
1951	20.6	25.6	31.8	47.3	63.3	67.2	72.9	71.5	61.8	54.6	32.6	23.4	47.7
1952	25.1	31.4	33.5	52.1	60.6	75.7	76.4	71.1	64.7	46.6	41.4	30.5	50.7
1953	25.3	30.0	37.3	45.9	60.5	74.3	75.9	74.3	65.4	57.9	42.8	30.0	51.6
1954	23.3	36.3	34.0	53.7	56.1	74.6	76.2	72.0	67.5	53.1	40.7	29.1	51.4
1955	22.0	25.3	36.0	57.0	63.8	67.8	80.5	76.8	66.4	53.6	34.2	24.2	50.6
1956	22.7	26.9	36.1	47.1	62.6	74.0	73.2	73.3	63.4	59.0	38.4	28.9	50.5
1957	16.6	32.5	37.0	50.4	59.6	70.4	76.7	73.2	61.9	49.8	38.1	32.8	49.9
1958	22.2	16.7	35.7	50.5	62.2	66.3	71.3	73.5	64.4	56.0	42.0	22.2	48.6
1959	15.7	25.7	36.9	49.4	65.3	72.0	73.2	77.2	66.3	49.9	31.4	34.7	49.8
#1960	25.7	22.3	19.9	53.4	58.9	68.5	72.8	73.8	68.6	53.8	41.5	23.7	48.6
1961	21.1	30.7	39.3	44.3	58.1	71.9	74.2	73.9	66.1	55.4	40.8	23.0	49.9
1962	16.2	23.7	32.6	49.3	67.9	70.6	71.6	72.9	61.7	55.2	39.0	23.2	48.7
1963	9.7	17.9	41.1	52.9	60.0	73.5	74.8	70.8	64.9	64.4	43.1	13.8	48.9
1964	28.4	27.0	34.4	51.5	66.3	72.3	76.6	70.8	65.6	50.7	44.2	24.8	51.1
1965	21.4	25.7	26.9	49.2	65.9	69.6	74.9	71.1	63.5	53.6	40.7	34.5	49.8
1966	14.3	24.8	39.2	47.0	56.3	70.5	77.9	70.6	62.9	52.5	41.7	28.1	48.8
1967	26.0	18.7	39.0	51.6	56.4	70.9	71.4	67.7	62.1	52.1	36.1	28.5	48.4
1968	21.0	22.7	41.9	51.3	57.2	72.1	73.1	73.5	63.1	53.2	37.3	24.5	49.3
1969	17.9	27.9	32.2	51.6	61.7	67.1	75.0	73.7	64.9	51.7	37.9	24.3	48.8
1970	13.1	24.7	33.6	51.8	64.9	70.7	75.7	72.9	65.2	53.9	39.2	28.9	49.5
1971	14.8	25.9	34.7	50.9	58.0	76.6	70.7	71.9	68.7	59.9	40.0	31.6	50.3
1972	18.6	20.7	36.0	48.0	63.0	69.4	74.6	74.0	66.7	50.2	37.3	22.3	48.4
1973	27.1	28.7	45.4	49.7	57.6	72.3	74.9	75.1	65.7	57.3	40.4	23.7	51.5
RECORD MEAN	22.1	26.4	36.0	50.2	61.1	71.3	75.1	73.2	65.2	54.3	39.0	26.9	50.1
MAX	30.6	35.1	45.2	60.9	72.1	82.2	86.1	84.3	76.7	65.8	48.1	34.8	60.2
MIN	13.5	17.7	26.8	39.4	50.0	60.4	64.0	62.1	53.7	42.8	29.9	18.9	39.9

HEATING DEGREE DAYS

MOLINE, ILLINOIS

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1942-43							1407	1056	1016	506	267	30	
1943-44	1	3	164	400	898	1180	1082	1092	1007	555	137	26	6545
1944-45	2	8	77	362	674	1391	1452	1044	505	408	312	81	6316
1945-46	13	9	139	437	795	1402	1223	993	526	357	233	59	6186
1946-47	0	19	99	240	730	1043	1176	1253	1011	487	276	59	6393
1947-48	10	0	117	148	932	1078	1471	1177	914	328	232	17	6424
1948-49	0	4	69	431	709	1114	1302	1126	868	471	127	6	6227
1949-50	0	3	204	289	695	1055	1204	1126	989	636	129	34	6364
1950-51	4	24	82	222	930	1416	1372	1096	1020	543	132	37	6878
1951-52	3	4	130	350	965	1283	1232	967	970	399	195	6	6504
1952-53	0	9	97	565	702	1062	1224	974	850	570	204	2	6259
1953-54	0	1	95	266	660	1078	1284	796	953	355	291	39	5818
1954-55	0	2	58	395	722	1108	1329	1107	891	236	100	44	5992
1955-56	0	0	71	356	914	1259	1305	1096	890	537	155	26	6609
1956-57	0	13	109	189	790	1109	1492	902	861	448	191	23	6127
1957-58	0	2	136	467	800	989	1319	1345	898	435	125	41	6557
1958-59	4	21	93	289	685	1319	1523	1096	861	462	114	8	6475
#1959-60	4	1	100	462	1002	932	1212	1229	1392	376	203	13	6926
1960-61	2	1	55	348	700	1277	1355	954	789	614	242	12	6349
1961-62	1	0	121	309	722	1297	1510	1150	999	481	78	22	6690
1962-63	8	1	149	342	774	1292	1717	1315	734	370	186	15	6903
1963-64	0	16	83	108	653	1585	1129	1097	942	405	71	20	6109
1964-65	3	24	100	437	624	1241	1344	1096	1174	471	86	3	6603
1965-66	0	21	115	363	722	939	1568	1119	794	533	287	31	6492
1966-67	0	6	116	386	695	1137	1202	1289	802	404	305	10	6352
1967-68	21	33	136	424	860	1127	1354	1221	711	409	248	18	6562
1968-69	8	15	96	404	826	1247	1458	1032	1010	398	172	57	6723
1969-70	0	0	80	445	805	1253	1607	1120	967	419	118	21	6835
1970-71	0	2	92	350	764	1111	1556	1088	931	425	242	0	6561
1971-72	17	3	94	195	740	1026	1434	1280	893	504	155	25	6366
1972-73	8	7	80	459	824	1319	1170	1013	598	452	223	1	6154
1973-74	0	0	78	258	733	1274							

TOTAL PRECIPITATION

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1934	0.75	0.66	1.15	0.96	0.98	4.21	3.98	4.51	8.88	1.34	6.47	1.05	34.94
1935	1.49	1.26	2.83	2.04	6.16	5.74	1.73	2.95					
1936									10.35	1.47	1.53		
1937			1.13	3.69	4.15	2.35	3.56	1.34	1.22	2.11	0.79	0.91	
1938	2.54	1.68	2.94	3.24	6.78	4.63	5.81	3.49	6.84	1.52	2.45	0.88	42.80
1939	1.67	1.70	2.68	3.56	2.28	3.99	2.45	5.59	0.94	2.96	0.94	0.30	29.06
1940	1.26	0.53	1.57	3.01	1.37	1.19	2.34	4.88	1.54	2.02	1.57	1.57	22.85
1941	2.86	0.53	1.38	4.49	3.49	6.46	1.67	1.66	5.45	9.41	1.25	1.43	40.08
1942	0.78	1.08	1.39	0.92	4.06	5.73	4.10	2.80	2.95	0.92	2.99	4.81	32.61
1943	1.36	1.84	1.49	5.61	6.38	4.55	2.10	4.31	1.23	3.24	1.77	0.41	34.29
1944	0.60	1.99	5.27	5.55	4.60	6.19	2.40	2.88	1.60	1.06	2.98	1.54	36.66
1945	0.44	0.90	3.36	3.88	5.07	2.52	1.39	3.86	4.74	1.09	1.71	1.69	30.65
1946	2.53	0.28	4.64	0.68	4.10	6.42	1.47	3.91	3.47	1.65	2.49	1.43	33.07
1947	2.08	0.23	2.10	7.36	3.70	5.99	4.08	0.52	5.13	0.88	1.92	1.64	35.63
1948	0.84	2.35	3.46	1.67	2.11	2.91	8.27	2.83	3.66	1.81	2.23	2.21	34.35
1949	3.28	1.78	2.76	1.10	1.82	5.45	3.40	7.12	1.96	2.27	0.71	2.91	34.56
1950	3.56	1.76	1.09	5.87	3.01	5.11	4.41	1.87	3.85	0.61	0.73	1.01	32.88
1951	1.05	2.56	5.06	3.60	5.90	6.65	5.60	8.00	3.47	3.75	1.68	1.28	48.60
1952	1.57	0.78	3.88	1.17	2.22	7.13	2.66	3.50	0.77	0.04	2.99	1.93	28.64
1953	1.04	2.72	2.68	1.73	3.18	3.43	4.88	1.05	1.79	1.00	1.07	1.90	26.47
1954	0.34	1.69	3.13	4.58	3.58	5.10	1.98	6.67	1.59	7.43	0.75	2.02	38.86
1955	2.03	1.88	1.20	5.33	2.30	3.65	1.02	2.44	2.40	2.70	0.60	0.54	26.09
1956	0.31	1.39	0.54	2.15	2.27	1.55	4.09	3.34	0.49	0.40	2.43	1.24	20.20
1957	1.33	1.57	2.90	3.49	4.11	2.52	4.47	3.17	1.16	2.00	2.38	3.82	32.92
1958	1.26	0.49	0.31	2.53	3.96	3.77	4.62	1.09	3.00	1.75	1.17	0.50	24.45
1959	1.41	1.77	3.06	4.75	5.31	3.62	4.48	3.90	4.29	5.59	1.50	2.42	42.10
1960	3.43	2.78	1.28	4.89	3.98	5.40	3.40	3.97	3.42	4.91	1.11	0.88	39.45
1961	0.31	1.20	4.48	2.19	1.98	3.69	7.63	2.37	11.00	4.53	4.94	1.58	45.90
1962	2.08	1.84	2.42	2.44	6.10	1.48	6.73	1.95	2.90	4.15	1.21	0.55	33.85
1963	0.91	0.37	3.29	4.24	2.36	1.02	8.78	4.02	2.38	0.63	1.84	0.94	30.78
1964	1.59	0.73	4.02	6.37	2.68	3.89	5.31	2.41	3.99	0.01	3.40	1.27	35.67
1965	4.08	0.97	2.52	7.92	4.04	2.07	4.78	9.31	8.27	0.88	1.93	2.82	49.59
1966	2.01	0.89	0.85	3.96	6.39	4.25	7.74	0.77	2.80	4.38	1.12	2.52	37.68
1967	2.00	1.11	1.68	4.91	1.70	8.15	4.15	3.62	4.99	6.23	2.26	1.56	42.36
1968	0.80	0.32	1.96	3.57	2.59	3.70	3.91	2.16	5.70	1.09	3.29	2.76	31.85
1969	3.28	0.21	2.25	3.11	3.40	6.97	11.39	2.00	2.50	4.63	0.53	1.52	41.79
1970	0.54	0.57	2.62	4.66	11.07	3.25	6.27	3.61	14.18	1.75	1.25	1.95	51.72
1971	1.79	1.57	1.99	1.86	3.14	2.36	11.22	0.35	4.54	2.64	2.21	4.77	38.44
1972	1.19	1.24	3.73	5.19	4.24	8.66	3.79	8.20	3.29	2.39	2.75	1.98	46.65
1973	2.53	1.94	7.43	11.30	6.96	6.58	2.63	2.30	6.74	3.06	1.15	3.74	56.36
RECORD MEAN	1.61	1.27	2.56	3.75	3.91	4.42	4.31	3.46	3.93	2.68	2.04	1.71	35.65

TOTAL SNOWFALL

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1934-35	0.0	0.0	0.0	0.0	T	9.3	1.9	2.8	8.9	0.2	0.3	0.0	23.4
1935-36	0.0	0.0	0.0	0.0								0.0	
1936-37	0.0	0.0	0.0	T	T				5.0	T	0.0	0.0	
1937-38	0.0	0.0	0.0	0.0	4.0	5.7	3.7	1.7	0.6	0.8	0.0	0.0	16.5
1938-39	0.0	0.0	0.0	0.1	0.4	3.1	11.8	6.1	2.5	T	0.0	0.0	24.0
1939-40	0.0	0.0	0.0	T	0.0	T	12.6	3.4	3.1	0.0	0.0	0.0	19.1
1940-41	0.0	0.0	0.0	0.0	2.3	1.4	14.5	3.9	11.5	0.0	0.0	0.0	33.6
1941-42	0.0	0.0	0.0	0.0	1.3	4.4	4.8	6.1	0.8	0.0	0.0	0.0	17.4
1942-43	0.0	0.0	0.1	T	1.6	7.6	11.1	2.5	5.3	T	0.0	0.0	28.2
1943-44	0.0	0.0	0.0	0.0	T	0.4	T	12.6	4.3	T	T	0.0	17.3
1944-45	0.0	0.0	0.0	0.0	0.3	13.9	5.8	4.3	0.7	T	T	0.0	25.0
1945-46	0.0	0.0	0.0	0.0	1.0	11.4	2.5	4.4	2.8	T	0.0	0.0	22.1
1946-47	0.0	0.0	0.0	T	0.0	5.3	8.5	4.3	7.2	T	0.0	0.0	25.3
1947-48	0.0	0.0	0.0	0.0	7.7	1.8	3.8	3.0	8.0	0.0	0.0	0.0	24.3
1948-49	0.0	0.0	0.0	0.0	T	6.2	5.3	2.5	0.9	1.1	0.0	0.0	16.0
1949-50	0.0	0.0	0.0	0.0	0.5	2.3	1.7	7.9	2.5	0.4	0.0	0.0	15.3
1950-51	0.0	0.0	0.0	0.0	2.1	7.3	7.1	4.9	17.0	1.4	0.0	0.0	39.8
1951-52	0.0	0.0	0.0	T	3.4	16.7	4.7	5.9	15.2	T	0.0	0.0	45.9
1952-53	0.0	0.0	0.0	0.0	T	2.5	12.1	6.2	7.1	0.4	0.0	0.0	28.3
1953-54	0.0	0.0	0.0	0.0	1.4	7.8	1.4	4.9	2.2	0.0	T	0.0	17.7
1954-55	0.0	0.0	0.0	T	3.7	16.2	11.2	6.1	8.8	0.0	0.0	0.0	46.0
1955-56	0.0	0.0	0.0	T	2.0	2.9	2.2	7.5	0.7	0.3	0.0	0.0	15.6
1956-57	0.0	0.0	0.0	0.0	2.1	6.5	11.8	0.7	6.9	6.5	0.0	0.0	34.5
1957-58	0.0	0.0	0.0	0.0	0.3	6.4	14.0	1.7	2.0	T	0.0	0.0	24.4
1958-59	0.0	0.0	0.0	0.0	0.9	8.1	15.1	3.6	13.9	1.7	0.0	0.0	43.3
1959-60	0.0	0.0	0.0	T	9.1	9.9	8.5	19.3	14.7	T	T	0.0	61.5
1960-61	0.0	0.0	0.0	0.0	T	5.5	3.4	2.5	2.4	2.5	0.0	0.0	16.3
1961-62	0.0	0.0	0.0	0.0	T	13.6	11.2	15.8	7.1	0.2	0.0	0.0	47.9
1962-63	0.0	0.0	0.0	0.2	T	3.1	14.7	5.8	7.3	0.0	0.0	0.0	31.1
1963-64	0.0	0.0	0.0	0.0	T	9.7	5.3	5.5	13.9	T	0.0	0.0	34.4
1964-65	0.0	0.0	0.0	0.0	2.1	11.7	10.2	7.4	16.2	0.0	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.3	5.7	6.0	0.8	0.7	0.1	T	0.0	13.6
1966-67	0.0	0.0	0.0	0.0	T	7.2	14.4	13.2	2.2	1.1	0.0	0.0	38.1
1967-68	0.0	0.0	0.0	6.6	0.3	3.2	8.6	2.8	1.1	T	0.0	0.0	22.6
1968-69	0.0	0.0	0.0	T	5.9	5.4	6.2	0.9	5.6	0.0	T	0.0	24.0
1969-70	0.0	0.0	0.0	0.0	1.5	15.4	7.2	6.1	12.7	8.3	0.0	0.0	51.2
1970-71	0.0	0.0	0.0	0.0	0.2	2.2	17.7	2.6	7.8	T	0.0	0.0	30.5
1971-72	0.0	0.0	0.0	0.0	5.9	0.3	11.8	13.7	19.8	2.6	0.0	0.0	54.1
1972-73	0.0	0.0	0.0	2.0	6.7	6.6	0.4	8.6	0.5	0.9	0.0	0.0	25.7
1973-74	0.0	0.0	0.0	0.0	T	11.4							

Record mean values above (not adjusted for instrument location changes listed in the Station Location table) are means for the period beginning in 1930 for temperature and 1927 for precipitation.

# Indicates a break in the data sequence during the year, or season, due to a station move or relocation of instruments. See Station Location table.

STATION LOCATION

MOLINE, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Elevation above Ground: Extreme thermometers	Elevation above Ground: Psychrometer	Elevation above Ground: Telepsychrometer	Elevation above Ground: Tipping bucket rain gage	Elevation above Ground: Weighing rain gage	Elevation above Ground: 8" rain gage	Elevation above Ground: Hygrothermometer	Elevation above Sea level: Pyranometer	Remarks
NE Corner, Moline AP 4.5 miles S of Moline Post Office	10/01/26	12/27/39		41° 27'	90° 31'	589	53	3	3				3			
Administration Building Quad City Airport	12/27/39	4/03/61	1200 feet W	41° 27'	90° 31'	g582	a25	b36	c36	d5		e5	15	f4		a - 54 feet for autographic record and 62 feet for direct reading until moved to field 11/13/58. b - 5 feet to 5/31/55 and 6/7/56 to 4/16/58. c - 5 feet to 12/1/54 and 6/7/56 to 4/16/58. d - Added 6/7/56; removed 3/1/60. e - 4 feet to 4/16/58. f - Commissioned 3/1/60. g - 589 feet to 3/1/60.
Terminal Building Quad City Airport	4/16/61	Present	200 feet SE	41° 27'	90° 31'	582	25	17	17		i16	h16	15	4		h - 5 feet to 7/22/63. i - Added 6/1/64.

Requests for additional climatic information should be addressed to: Director, National Climatic Center, Federal Building, Asheville, N. C. 28801

Sale Price: 15 cents per copy. Checks and money orders should be made payable to Department of Commerce, NOAA. Remittances and correspondence regarding this publication should be sent to: National Climatic Center, Federal Building, Asheville, N. C. 28801. Attn: Publications.

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LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

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NARRATIVE CLIMATOLOGICAL SUMMARY

This area has a temperate continental climate, with a wide temperature range throughout the year. There are some intensely hot, usually humid, periods in summer and severely cold periods in winter. Maxima of 90° or higher have occurred as frequently as on 53 days (1936), but in 1882 there were none. Zero or lower readings have occurred during every winter of record.

Freezing temperatures have occurred as late in spring as May 22 and as early in autumn as September 18. Precipitation usually is well distributed throughout the year. Normally the greatest amounts fall during the 180-day average crop growing season (April 19-October 15, inclusive). Substantial weather changes frequently occur at 3-or 4-day intervals, as a direct result of proximity to some of the most important storm tracks.

The locality is in the heart of the Corn Belt. Agricultural crops include many important staple products in addition to corn. Cattle, hogs, horses, and poultry produced in Iowa and Illinois rank high in the nation. Close to the Mississippi River there is large scale truck gardening and considerable dairying. Field production of grains and livestock attains greater development farther away from the large streams, where the countryside is rolling prairie. Damaging drouths are not common. This, together with the variety of agricultural products, has led to designating the section as the "Bread Basket" or the "Garden Spot" of America.

The climate is favorable for many industries as evidenced by the large number and variety of manufacturing and other enterprises which have located and developed in the community. Among these are some of the world's largest producers of agricultural machinery.

Records began in Davenport, Iowa, in May 1871, and have been continuous to date. At the Quad-City Airport, Moline, Illinois, records began in October 1926, but are not complete in the years 1935. 1936, and 1937. For a summary of data from Lock & Dam No. 15, Davenport, Iowa, please refer to IOWA CLIMATOLOGICAL DATA.

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METEOROLOGICAL DATA FOR THE CURRENT YEAR

Station: MOLINE, ILLINOIS QUAD CITY AIRPORT Standard time used: CENTRAL Latitude: 41° 27' N Longitude: 90° 31' W Elevation (ground): 582 feet Year: 1972

Month	Temperature: Averages: Daily maximum	Daily minimum	Monthly	Extremes: Highest	Date	Lowest	Date	Degree days (Base 65°): Heating	Cooling	Precipitation: Total	Greatest in 24 hrs.	Date	Snow, Ice pellets: Total	Greatest in 24 hrs.	Date	Relative humidity (Local time): Hour 00	Hour 06	Hour 12	Hour 18	Wind &: Resultant: Direction	Speed	Average speed	Fastest mile: Speed	Direction #	Date	Percent of possible sunshine	Average sky cover sunrise to sunset	Number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog	Temperatures: Maximum: 90° and above ‡	32° and below	Minimum: 32° and below	0° and below	Average daily solar radiation - langleys
JAN	27.3	9.9	18.6	55	18	-15	15	1434	0	1.19	0.42	23	11.8	5.2	23	66	65	60	63	26	5.0	12.0	44	NW	24	54	6.3	9	5	17	9	3	0	2	0	17	31	10	
FEB	30.2	11.1	20.7	67	29	-19	9	1280	0	1.24	0.40	9-10	13.7	5.3	9-10	73	73	67	68	28	3.0	10.9	36	NW	18	53	7.0	7	5	17	14	5	0	1	0	17	29	8	
MAR	45.5	26.5	36.0	77	11	6	5	893	0	3.73	1.45	12-13	19.8	11.0	28-29	72	74	61	63	33	1.9	12.3	30	NW	7+	49	6.9	7	8	16	14	4	2	2	0	3	23	0	
APR	58.1	37.9	48.0	79	18	21	8	504	3	5.19	1.71	16	2.6	2.0	3	76	82	62	61	09	2.8	11.2	34	NE	7+	39	7.6	5	5	20	12	1	7	2	0	0	11	0	
MAY	75.3	50.7	63.0	92	22	34	10	155	102	4.24	1.85	7-8	0.0	0.0		78	83	51	49	20	0.5	8.9	28	SW	2+	64	5.3	11	11	9	11	0	6	0	5	0	0	0	
JUN	81.8	56.9	69.4	98	3	39	11	25	165	8.66	3.54	13-14	0.0	0.0		73	77	52	52	24	0.7	9.1	33	NE	9	72	5.1	8	13	9	9	0	7	1	5	0	0	0	
JUL	84.2	64.9	74.6	93	22+	47	5	8	312	3.79	1.71	14	0.0	0.0		82	84	62	63	20	2.9	7.3	49	W	14	59	6.6	6	9	16	12	0	9	0	7	0	0	0	
AUG	83.2	64.7	74.0	94	19+	50	9	7	294	8.20	4.33	5-6	0.0	0.0		85	88	63	68	22	2.8	7.7	31	NW	6	64	5.8	7	12	12	10	0	6	1	7	0	0	0	
SEP	76.7	56.6	66.7	90	18+	36	30	80	138	3.29	0.97	28	0.0	0.0		83	85	62	69	18	2.7	9.4	26	NW	29+	56	5.9	8	11	11	10	0	7	1	2	0	0	0	
OCT	59.3	41.0	50.2	81	2	21	19	459	6	2.39	0.97	21-22	2.0	2.0	18	73	78	62	67	24	1.2	8.6	26	SW	23+	42	6.9	8	4	19	9	1	1	5	0	0	5	0	
NOV	42.5	32.0	37.3	60	6	15	15	824	0	2.75	1.15	13-14	6.7	4.5	13-14	75	77	69	71	27	1.6	9.7	32	NE	13	20	8.8	2	4	24	9	4	0	1	0	0	16	0	
DEC	29.6	15.0	22.3	57	2	-18	11	1319	0	1.98	0.77	29-30	6.6	4.9	9-10	80	81	78	79	26	3.4	10.8	34	SW	31	37	7.7	4	6	21	9	1	2	2	0	19	28	7	
YEAR	57.8	38.9	48.4	98	JUN. 3	-19	FEB. 9	6988	1020	46.65	4.33	AUG. 5-6	63.2	11.0	MAR. 28-29	76	79	62	64	24	1.5	9.8	49	W	JUL. 14	53	6.7	82	93	191	128	19	47	18	26	56	143	25	

NORMALS, MEANS, AND EXTREMES

Month	Temperature: Normal: Daily maximum	Daily minimum	Monthly	Extremes: Record highest	Year	Record lowest	Year	Normal heating degree days (Base 65°)	Precipitation: Normal total	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year	Snow, Ice pellets: Mean total	Maximum monthly	Year	Maximum in 24 hrs.	Year	Relative humidity (Local time): Hour 00	Hour 06	Hour 12	Hour 18	Wind &: Mean speed	Prevailing direction	Fastest mile: Speed	Direction #	Year	Pct. of possible sunshine	Mean sky cover sunrise to sunset	Mean number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog	Temperatures: Max.: 90° and above ‡	32° and below	Min.: 32° and below	0° and below	Average daily solar radiation - langleys
(a)	(b)	(b)	(b)	13		13		(b)	(b)	43		43		43		40	41		39		12	12	12	12	29	12	44	44		29	30	39	39	39	40	40	39	38	12	12	12	12	
J	31.6	13.6	22.6	63	1967	-26	1963	1314	1.61	4.08	1965	0.31	1961+	2.07	1960	7.6	17.7	1971	16.4	1971	72	73	65	69	10.7	WNW	56	SW	1946	48	6.5	8	7	16	9	2	*	3	0	19	30	10	
F	34.8	16.6	25.7	67	1972	-19	1972	1100	1.35	2.78	1960	0.17	1933	1.90	1948	5.4	19.3	1960	8.5	1960	72	74	63	65	11.0	WNW	58	NW	1948	49	6.4	7	6	15	8	2	*	2	0	13	27	4	
M	45.1	25.6	35.4	80	1968	-19	1960	918	2.39	5.27	1944	0.31	1958	2.38	1944	6.7	19.8	1972	11.0	1972	74	77	60	62	12.0	WNW	66	SW	1954+	51	6.8	7	8	16	11	2	2	2	0	4	23	*	
A	61.7	38.3	50.0	91	1970	20	1971	450	3.17	7.92	1965	0.68	1946	2.80	1959	0.7	8.3	1970	8.2	1970	74	80	56	56	12.2	NW	73	SW	1947	53	6.6	7	8	15	11	*	5	1	*	0	7	0	
M	73.1	49.2	61.2	94	1967	26	1966	189	3.80	11.07	1970	0.55	1928	3.68	1970	T	0.3	1935	0.3	1935	76	81	53	52	10.4	E	68	SW	1955	59	6.3	8	8	15	12	0	7	1	2	0	1	0	
J	83.2	59.5	71.4	99	1971	39	1972	39	4.37	8.66	1972	1.02	1963	5.02	1967	0.0	0.0		0.0		78	82	54	54	9.1	S	77	SW	1947	64	6.1	7	10	13	10	0	8	1	7	0	0	0	
J	88.0	63.2	75.6	100	1966	46	1971	0	3.26	11.39	1969	1.02	1955	5.41	1963	0.0	0.0		0.0		83	86	58	60	7.5	E	65	W	1953	71	5.4	10	12	9	9	0	9	1	7	0	0	0	
A	85.7	61.4	73.6	97	1963	44	1963	9	3.53	9.31	1965	0.35	1971	4.60	1951	0.0	0.0		0.0		84	89	57	61	7.2	E	61	SW	1931	70	5.2	11	10	10	8	0	7	2	5	0	0	0	
S	78.1	52.5	65.3	98	1960	32	1967+	99	3.25	14.18	1970	0.49	1956	6.29	1961	T	0.1	1942	0.1	1942	84	88	59	68	8.1	S	66	NW	1945	65	5.1	12	8	10	9	0	5	2	2	0	*	0	
O	67.1	42.4	54.8	92	1963	19	1962	335	2.46	9.41	1941	0.01	1964	4.89	1954	0.2	6.6	1967	6.5	1967	77	82	55	63	9.1	S	56	SW	1949	61	5.1	12	8	11	7	*	2	2	*	0	5	0	
N	48.9	29.5	39.2	77	1961	3	1964	774	1.95	6.47	1934	0.29	1933	2.73	1961	1.7	9.1	1959	5.7	1959	76	80	63	70	10.8	WNW	60	W	1952	43	6.7	7	8	15	7	1	1	1	0	1	18	0	
D	35.4	18.3	26.9	69	1970	-22	1963	1181	1.65	4.81	1942	0.23	1929	3.38	1942	6.5	16.7	1951	8.4	1954	77	79	71	75	10.5	WNW	61	SW	1947	41	6.8	7	6	18	9	2	1	2	0	14	27	4	
YR	61.1	39.2	50.1	100	JUL. 1966	-26	JAN. 1963	6408	32.79	14.18	SEP. 1970	0.01	OCT. 1964	6.29	SEP. 1961	28.8	19.8	MAR. 1972	16.4	JAN. 1971	77	81	59	63	9.9	WNW	77	SW	JUN. 1947	58	6.1	103	99	163	111	9	47	20	22	51	138	17	

Means and extremes above are from existing and comparable exposures. Annual extremes have been exceeded at other sites in the locality as follows:
Highest temperature 106 in August 1936.

(a) Length of record, years, based on January data. Other months may be for more or fewer years if there have been breaks in the record.
(b) Climatological standard normals (1931-1960).
* Less than one half.
\+ Also on earlier dates, months, or years.
T Trace, an amount too small to measure.
Below zero temperatures are preceded by a minus sign.
The prevailing direction for wind in the Normals, Means, and Extremes table is from records through 1963.
‡ ≥ 70° at Alaskan stations.

Unless otherwise indicated, dimensional units used in this bulletin are: temperature in degrees F.; precipitation, including snowfall, in inches; wind movement in miles per hour; and relative humidity in percent. Heating degree day totals are the sums of negative departures of average daily temperatures from 65° F. Cooling degree day totals are the sums of positive departures of average daily temperatures from 65° F. Sleet was included in snowfall totals beginning with July 1948. The term "Ice pellets" includes solid grains of ice (sleet) and particles consisting of snow pellets encased in a thin layer of ice. Heavy fog reduces visibility to 1/4 mile or less.

Sky cover is expressed in a range of 0 for no clouds or obscuring phenomena to 10 for complete sky cover. The number of clear days is based on average cloudiness 0-3, partly cloudy days 4-7, and cloudy days 8-10 tenths.

Solar radiation data are the averages of direct and diffuse radiation on a horizontal surface. The langley denotes one gram calorie per square centimeter.

& Figures instead of letters in a direction column indicate direction in tens of degrees from true North; i.e., 09 - East, 18 - South, 27 - West, 36 - North, and 00 - Calm. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations. If figures appear in the direction column under "Fastest mile" the corresponding speeds are fastest observed 1-minute values.

\# To 8 compass points only.

551.5
L1n3ard
1972

AVERAGE TEMPERATURE

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1933	34.8	23.7	36.4	48.6	61.6	77.6	76.0	71.0	70.2	50.0	37.7	29.0	51.4
1934	30.0	22.2	33.8	50.4	68.4	78.1	79.2	71.7	62.5	56.3	44.3	22.4	51.6
1935	22.8	29.2	41.0	47.2	54.8	66.4	79.1	74.2					
1936								80.1	68.6	53.6	37.6		
1937			34.4	48.9	63.0	70.9	76.4	77.4	65.8	51.6	36.4	24.6	
1938	22.4	34.4	44.8	52.4	61.4	69.0	77.0	76.3	67.5	58.6	40.4	27.0	52.6
1939	29.6	24.4	38.0	46.6	65.8	72.2	75.7	71.0	68.8	54.2	39.6	33.1	51.6
1940	10.0	26.2	32.3	47.8	57.8	72.6	76.9	72.1	64.3	57.0	36.0	31.5	48.7
1941	25.6	22.4	33.6	54.4	65.8	71.6	75.0	74.8	67.5	55.6	41.6	34.1	51.8
1942	22.5	24.6	39.5	55.3	60.8	71.0	75.0	71.7	63.0	53.2	39.7	21.0	49.8
1943	19.6	27.3	32.3	48.2	57.8	73.2	75.9	74.8	61.2	52.2	35.0	26.9	48.7
1944	30.1	27.4	32.6	46.4	66.2	73.6	73.8	73.4	66.2	53.4	42.5	20.2	50.5
1945	18.2	27.7	48.8	51.6	55.6	66.5	72.2	73.2	63.9	51.0	38.6	19.7	48.9
1946	25.6	29.5	48.0	53.5	57.8	70.2	74.8	69.2	64.8	57.8	40.8	31.4	52.0
1947	27.0	20.1	32.5	48.8	56.5	67.4	72.2	81.0	68.2	62.6	33.8	30.2	50.0
1948	17.5	24.4	35.6	55.2	57.8	69.0	75.1	73.6	67.6	51.1	41.3	29.0	49.8
1949	23.0	24.8	37.1	49.4	63.8	73.6	78.0	73.5	59.0	57.0	41.8	31.0	51.0
1950	25.9	24.7	32.9	43.6	62.0	69.6	71.1	68.5	64.1	59.2	33.8	19.1	47.9
1951	20.6	25.6	31.8	47.3	63.3	67.2	72.9	71.5	61.8	54.6	32.6	23.4	47.7
1952	25.1	31.4	33.5	52.1	60.6	75.7	76.4	71.1	64.7	46.6	41.4	30.5	50.7
1953	25.3	30.0	37.3	45.9	60.5	74.3	75.9	74.3	65.4	57.9	42.8	30.0	51.6
1954	23.3	36.3	34.0	53.7	56.1	74.6	76.2	72.0	67.5	53.1	40.7	29.1	51.4
1955	22.0	25.3	36.0	57.0	63.8	67.8	80.5	76.8	66.4	53.6	34.2	24.2	50.6
1956	22.7	26.9	36.1	47.1	62.6	74.0	73.2	73.3	63.4	59.0	38.4	28.9	50.5
1957	16.6	32.5	37.0	50.4	59.6	70.4	76.7	73.2	61.9	49.8	38.1	32.8	49.9
1958	22.2	16.7	35.7	50.5	62.2	66.3	71.3	73.5	64.4	56.0	42.0	22.2	48.6
1959	15.7	25.7	36.9	49.4	65.3	72.0	73.2	77.2	66.3	49.9	31.4	34.7	49.8
#1960	25.7	22.3	19.9	53.4	58.9	68.5	72.8	73.8	68.6	53.8	41.5	23.7	48.6
1961	21.1	30.7	39.3	44.3	58.1	71.9	74.2	73.9	66.1	55.4	40.8	23.0	49.9
1962	16.2	23.7	32.6	49.3	67.9	70.6	71.6	72.9	61.7	55.2	39.0	23.2	48.7
1963	9.7	17.9	41.1	52.9	60.0	73.5	74.8	70.8	64.9	64.4	43.1	13.8	48.9
1964	28.4	27.0	34.4	51.5	66.3	72.3	76.6	70.8	65.6	50.7	44.2	24.8	51.1
1965	21.4	25.7	26.9	49.2	65.9	69.6	74.9	71.1	63.5	53.6	40.7	34.5	49.8
1966	14.3	24.8	39.2	47.0	56.3	70.5	77.9	70.6	62.9	52.5	41.7	28.1	48.8
1967	26.0	18.7	39.0	51.6	56.4	70.9	71.4	67.7	62.1	52.1	36.1	28.5	48.4
1968	21.0	22.7	41.9	51.3	57.2	72.1	73.1	73.5	63.1	53.2	37.3	24.5	49.3
1969	17.9	27.9	32.2	51.6	61.7	67.1	75.0	73.7	64.9	51.7	37.9	24.3	48.8
1970	13.1	24.7	33.6	51.8	64.9	70.7	75.7	72.9	65.2	53.9	39.2	28.9	49.5
1971	14.8	25.9	34.7	50.9	58.0	76.6	70.7	71.9	68.7	59.9	40.0	31.6	50.3
1972	18.6	20.7	36.0	48.0	63.0	69.4	74.6	74.0	66.7	50.2	37.3	22.3	48.4
RECORD MEAN	21.9	26.3	35.8	50.1	61.1	71.3	75.1	73.2	65.2	54.2	39.0	26.9	50.0
MAX	30.5	35.0	45.0	60.9	72.2	82.2	86.1	84.3	76.8	65.7	48.1	34.9	60.1
MIN	13.3	17.6	26.5	39.3	50.0	60.4	64.0	62.0	53.6	42.7	29.9	18.9	39.9

TOTAL DEGREE DAYS

MOLINE, ILLINOIS

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1942-43							1407	1056	1016	506	267	30	
1943-44	1	3	164	400	898	1180	1082	1092	1007	555	137	26	6545
1944-45	2	8	77	362	674	1391	1452	1044	505	408	312	81	6316
1945-46	13	9	139	437	795	1402	1223	993	526	357	233	59	6186
1946-47	0	19	99	240	730	1043	1176	1253	1011	487	276	59	6393
1947-48	10	0	117	148	932	1078	1471	1177	914	328	232	17	6424
1948-49	0	4	69	431	709	1114	1302	1126	868	471	127	6	6227
1949-50	0	3	204	289	695	1055	1204	1126	989	636	129	34	6364
1950-51	4	24	82	222	930	1416	1372	1096	1020	543	132	37	6878
1951-52	3	4	130	350	965	1283	1232	967	970	399	195	6	6504
1952-53	0	9	97	565	702	1062	1224	974	850	570	204	2	6259
1953-54	0	1	95	266	660	1078	1284	796	953	355	291	39	5818
1954-55	0	2	58	395	722	1108	1329	1107	891	236	100	44	5992
1955-56	0	0	71	356	914	1259	1305	1096	890	537	155	26	6609
1956-57	0	13	109	189	790	1109	1492	902	861	448	191	23	6127
1957-58	0	2	136	467	800	989	1319	1345	898	435	125	41	6557
1958-59	4	21	93	289	685	1319	1523	1096	861	462	114	8	6475
#1959-60	4	1	100	462	1002	932	1212	1229	1392	376	203	13	6926
1960-61	2	1	55	348	700	1277	1355	954	789	614	242	12	6349
1961-62	1	0	121	309	722	1297	1510	1150	999	481	78	22	6690
1962-63	8	1	149	342	774	1292	1717	1315	734	370	186	15	6903
1963-64	0	16	83	108	653	1585	1129	1097	942	405	71	20	6109
1964-65	3	24	100	437	624	1241	1344	1096	1174	471	86	3	6603
1965-66	0	21	115	363	722	939	1568	1119	794	533	287	31	6492
1966-67	0	6	116	386	695	1137	1202	1289	802	404	305	10	6352
1967-68	21	33	136	424	860	1127	1354	1221	711	409	248	18	6562
1968-69	8	15	96	404	826	1247	1458	1032	1010	398	172	57	6723
1969-70	0	0	80	445	805	1253	1607	1120	967	419	118	21	6835
1970-71	0	2	92	350	764	1111	1556	1088	931	425	242	0	6561
1971-72	17	3	94	195	740	1026	1434	1280	893	504	155	25	6366
1972-73	8	7	80	459	824	1319							

TOTAL PRECIPITATION

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1933	2.10	0.17	3.47	1.81	7.60	5.19	1.86	1.87	2.37	1.70	0.29	1.36	29.79
1934	0.75	0.66	1.15	0.96	0.98	4.21	3.98	4.51	8.88	1.34	6.47	1.05	34.94
1935	1.49	1.26	2.83	2.04	6.16	5.74	1.73	2.95					
1936									10.35	1.47	1.53		
1937			1.13	3.69	4.15	2.35	3.56	1.34	1.22	2.11	0.79	0.91	
1938	2.54	1.68	2.94	3.24	6.78	4.63	5.81	3.49	6.84	1.52	2.45	0.88	42.80
1939	1.67	1.70	2.68	3.56	2.28	3.99	2.45	5.59	0.94	2.96	0.94	0.30	29.06
1940	1.26	0.53	1.57	3.01	1.37	1.19	2.34	4.88	1.54	2.02	1.57	1.57	22.85
1941	2.86	0.53	1.38	4.49	3.49	6.46	1.67	1.66	5.45	9.41	1.25	1.43	40.08
1942	0.78	1.08	1.39	0.92	4.06	5.73	4.18	2.80	2.95	0.92	2.99	4.81	32.61
1943	1.36	1.84	1.49	5.61	6.38	4.55	2.10	4.31	1.23	3.24	1.77	0.41	34.29
1944	0.60	1.99	5.27	5.55	4.60	6.19	2.40	2.88	1.60	1.06	2.98	1.54	36.66
1945	0.44	0.90	3.36	3.88	5.07	2.52	1.39	3.86	4.74	1.09	1.71	1.69	30.65
1946	2.53	0.28	4.64	0.68	4.10	6.42	1.47	3.91	3.47	1.65	2.49	1.43	33.07
1947	2.08	0.23	2.10	7.36	3.70	5.99	4.08	0.52	5.13	0.88	1.92	1.64	35.63
1948	0.84	2.35	3.46	1.67	2.11	2.91	8.27	2.83	3.66	1.81	2.23	2.21	34.35
1949	3.28	1.78	2.76	1.10	1.82	5.45	3.40	7.12	1.96	2.27	0.71	2.91	34.56
1950	3.56	1.76	1.09	5.87	3.01	5.11	4.41	1.87	3.85	0.61	0.73	1.01	32.88
1951	1.05	2.56	5.06	3.60	5.90	6.65	5.60	8.00	3.47	3.75	1.68	1.28	48.60
1952	1.57	0.78	3.88	1.17	2.22	7.13	2.66	3.50	0.77	0.04	2.99	1.93	28.64
1953	1.04	2.72	2.68	1.73	3.18	3.43	4.88	1.05	1.79	1.00	1.07	1.90	26.47
1954	0.34	1.69	3.13	4.58	3.58	5.10	1.98	6.67	1.59	7.43	0.75	2.02	38.86
1955	2.03	1.88	1.20	5.33	2.30	3.65	1.02	2.44	2.40	2.70	0.60	0.54	26.09
1956	0.31	1.39	0.54	2.15	2.27	1.55	4.09	3.34	0.49	0.40	2.43	1.24	20.20
1957	1.33	1.57	2.90	3.49	4.11	2.52	4.47	3.17	1.16	2.00	2.38	3.82	32.92
1958	1.26	0.49	0.31	2.53	3.96	3.77	4.62	1.09	3.00	1.75	1.17	0.50	24.45
1959	1.41	1.77	3.06	4.75	5.31	3.62	4.48	3.90	4.29	5.59	1.50	2.42	42.10
1960	3.43	2.78	1.28	4.89	3.98	5.40	3.40	3.97	3.42	4.91	1.11	0.88	39.45
1961	0.31	1.20	4.48	2.19	1.98	3.69	7.63	2.37	11.00	4.53	4.94	1.58	45.90
1962	2.08	1.84	2.42	2.44	6.10	1.48	6.73	1.95	2.90	4.15	1.21	0.55	33.85
1963	0.91	0.37	3.29	4.24	2.36	1.02	8.78	4.02	2.38	0.63	1.84	0.94	30.78
1964	1.59	0.73	4.02	6.37	2.68	3.89	5.31	2.41	3.99	0.01	3.40	1.27	35.67
1965	4.08	0.97	2.52	7.92	4.04	2.07	4.78	9.31	8.27	0.88	1.93	2.82	49.59
1966	2.01	0.89	0.85	3.96	6.39	4.25	7.74	0.77	2.80	4.38	1.12	2.52	37.68
1967	2.00	1.11	1.68	4.91	1.70	8.15	4.15	3.62	4.99	6.23	2.26	1.56	42.36
1968	0.80	0.32	1.96	3.57	2.59	3.70	3.91	2.16	5.70	1.09	3.29	2.76	31.85
1969	3.28	0.21	2.25	3.11	3.40	6.97	11.39	2.00	2.50	4.63	0.53	1.52	41.79
1970	0.54	0.57	2.62	4.66	11.07	3.25	6.27	3.61	14.18	1.75	1.25	1.95	51.72
1971	1.79	1.57	1.99	1.86	3.14	2.36	11.22	0.35	4.54	2.64	2.21	4.77	38.44
1972	1.19	1.24	3.73	5.19	4.24	8.66	3.79	8.20	3.29	2.39	2.75	1.98	46.65
RECORD MEAN	1.59	1.25	2.45	3.58	3.84	4.37	4.35	3.48	3.87	2.67	2.06	1.66	35.17

TOTAL SNOWFALL

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1933-34	0.0	0.0	0.0	T	0.3	3.5	2.6	6.4	3.6	T	0.0	0.0	16.4
1934-35	0.0	0.0	0.0	0.0	T	9.3	1.9	2.8	8.9	0.2	0.3	0.0	23.4
1935-36	0.0	0.0	0.0	0.0								0.0	
1936-37	0.0	0.0	0.0	T	T				5.0	T	0.0	0.0	
1937-38	0.0	0.0	0.0	0.0	4.0	5.7	3.7	1.7	0.6	0.8	0.0	0.0	16.5
1938-39	0.0	0.0	0.0	0.1	0.4	3.1	11.8	6.1	2.5	T	0.0	0.0	24.0
1939-40	0.0	0.0	0.0	T	0.0	T	12.6	3.4	3.1	0.0	0.0	0.0	19.1
1940-41	0.0	0.0	0.0	0.0	2.3	1.4	14.5	3.9	11.5	0.0	0.0	0.0	33.6
1941-42	0.0	0.0	0.0	0.0	1.3	4.4	4.8	6.1	0.8	0.0	0.0	0.0	17.4
1942-43	0.0	0.0	0.1	T	1.6	7.6	11.1	2.5	5.3	T	0.0	0.0	28.2
1943-44	0.0	0.0	0.0	0.0	T	0.4	T	12.6	4.3	T	T	0.0	17.3
1944-45	0.0	0.0	0.0	0.0	0.3	13.9	5.8	4.3	0.7	T	T	0.0	25.0
1945-46	0.0	0.0	0.0	0.0	1.0	11.4	2.5	4.4	2.8	T	0.0	0.0	22.1
1946-47	0.0	0.0	0.0	T	0.0	5.3	8.5	4.3	7.2	T	0.0	0.0	25.3
1947-48	0.0	0.0	0.0	0.0	7.7	1.8	3.8	3.0	8.0	0.0	0.0	0.0	24.3
1948-49	0.0	0.0	0.0	0.0	T	6.2	5.3	2.5	0.9	1.1	0.0	0.0	16.0
1949-50	0.0	0.0	0.0	0.0	0.5	2.3	1.7	7.9	2.5	0.4	0.0	0.0	15.3
1950-51	0.0	0.0	0.0	0.0	2.1	7.3	7.1	4.9	17.0	1.4	0.0	0.0	39.8
1951-52	0.0	0.0	0.0	T	3.4	16.7	4.7	5.9	15.2	T	0.0	0.0	45.9
1952-53	0.0	0.0	0.0	0.0	T	2.5	12.1	6.2	7.1	0.4	0.0	0.0	28.3
1953-54	0.0	0.0	0.0	0.0	1.4	7.8	1.4	4.9	2.2	0.0	T	0.0	17.7
1954-55	0.0	0.0	0.0	T	3.7	16.2	11.2	6.1	8.8	0.0	0.0	0.0	46.0
1955-56	0.0	0.0	0.0	T	2.0	2.9	2.2	7.5	0.7	0.3	0.0	0.0	15.6
1956-57	0.0	0.0	0.0	0.0	2.1	6.5	11.8	0.7	6.9	6.5	0.0	0.0	34.5
1957-58	0.0	0.0	0.0	0.0	0.3	6.4	14.0	1.7	2.0	T	0.0	0.0	24.4
1958-59	0.0	0.0	0.0	0.0	0.9	8.1	15.1	3.6	13.9	1.7	0.0	0.0	43.3
1959-60	0.0	0.0	0.0	T	9.1	9.9	8.5	19.3	14.7	T	T	0.0	61.5
1960-61	0.0	0.0	0.0	0.0	T	5.5	3.4	2.5	2.4	2.5	0.0	0.0	16.3
1961-62	0.0	0.0	0.0	0.0	T	13.6	11.2	15.8	7.1	0.2	0.0	0.0	47.9
1962-63	0.0	0.0	0.0	0.2	T	3.1	14.7	5.8	7.3	0.0	0.0	0.0	31.1
1963-64	0.0	0.0	0.0	0.0	T	9.7	5.3	5.5	13.9	T	0.0	0.0	34.4
1964-65	0.0	0.0	0.0	0.0	2.1	11.7	10.2	7.4	16.2	0.0	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.3	5.7	6.0	0.8	0.7	0.1	T	0.0	13.6
1966-67	0.0	0.0	0.0	0.0	T	7.2	14.4	13.2	2.2	1.1	0.0	0.0	38.1
1967-68	0.0	0.0	0.0	6.6	0.3	3.2	8.6	2.8	1.1	T	0.0	0.0	22.6
1968-69	0.0	0.0	0.0	T	5.9	5.4	6.2	0.9	5.6	0.0	T	0.0	24.0
1969-70	0.0	0.0	0.0	0.0	1.5	15.4	7.2	6.1	12.7	8.3	0.0	0.0	51.2
1970-71	0.0	0.0	0.0	0.0	0.2	2.2	17.7	2.6	7.8	T	0.0	0.0	30.5
1971-72	0.0	0.0	0.0	0.0	5.9	0.3	11.8	13.7	19.8	2.6	0.0	0.0	54.1
1972-73	0.0	0.0	0.0	2.0	6.7	6.6							

Record mean values above (not adjusted for instrument location changes listed in the Station Location table) are means for the period beginning in 1930 for temperature and 1927 for precipitation.

# Indicates a break in the data sequence during the year, or season, due to a station move or relocation of instruments. See Station Location table.

STATION LOCATION

MOLINE, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Telepsychrometer	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Elevation above Sea level: Pyranometer	Remarks
NE Corner, Moline AP 4.5 miles S of Moline Post Office	10/01/26	12/27/39		41° 27'	90° 31'	589	53	3	3				3			
Administration Building Quad City Airport	12/27/39	4/03/61	1200 feet W	41° 27'	90° 31'	g582	a25	b36	c36	d5		e5	15	f4		a - 54 feet for autographic record and 62 feet for direct reading until moved to field 11/13/58. b - 5 feet to 5/31/55 and 6/7/56 to 4/16/58. c - 5 feet to 12/1/54 and 6/7/56 to 4/16/58. d - Added 6/7/56; removed 3/1/60. e - 4 feet to 4/16/58. f - Commissioned 3/1/60. g - 589 feet to 3/1/60.
Terminal Building Quad City Airport	4/16/61	Present	200 feet SE	41° 27'	90° 31'	582	25	17	17			h16	15	4		h - 5 feet to 7/22/63.

Requests for additional information should be directed to the National Weather Service Office for which this summary was issued.

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LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

MOLINE, ILLINOIS

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U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL DATA SERVICE

NARRATIVE CLIMATOLOGICAL SUMMARY

This area has a temperate continental climate, with a wide temperature range throughout the year. There are some intensely hot, usually humid, periods in summer and severely cold periods in winter. Maxima of 90° or higher have occurred as frequently as on 53 days (1936), but in 1882 there were none. Zero or lower readings have occurred during every winter of record.

Freezing temperatures have occurred as late in spring as May 22 and as early in autumn as September 18. Precipitation usually is well distributed throughout the year. Normally the greatest amounts fall during the 180-day average crop growing season (April 19-October 15, inclusive). Substantial weather changes frequently occur at 3-or 4-day intervals, as a direct result of proximity to some of the most important storm tracks.

The locality is in the heart of the Corn Belt. Agricultural crops include many important staple products in addition to corn. Cattle, hogs, horses, and poultry produced in Iowa and Illinois rank high in the nation. Close to the Mississippi River there is large scale truck gardening and considerable dairying. Field production of grains and livestock attains greater development farther away from the large streams, where the countryside is rolling prairie. Damaging drouths are not common. This, together with the variety of agricultural products, has led to designating the section as the "Bread Basket" or the "Garden Spot" of America.

The climate is favorable for many industries as evidenced by the large number and variety of manufacturing and other enterprises which have located and developed in the community. Among these are some of the world's largest producers of agricultural machinery.

Records began in Davenport, Iowa, in May 1871, and have been continuous to date. At the Quad-City Airport, Moline, Illinois, records began in October 1926, but are not complete in the years 1935. 1936, and 1937. For a summary of data from Lock & Dam No. 15, Davenport, Iowa, please refer to IOWA CLIMATOLOGICAL DATA.

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METEOROLOGICAL DATA FOR THE CURRENT YEAR

Station: MOLINE, ILLINOIS QUAD CITY AIRPORT Standard time used: CENTRAL Latitude: 41° 27' N Longitude: 90° 31' W Elevation (ground): 582 feet Year: 1971

Month	Temperature: Averages: Daily maximum	Daily minimum	Monthly	Extremes: Highest	Date	Lowest	Date	Degree days (Base 65°): Heating	Cooling	Precipitation: Total	Greatest in 24 hrs.	Date	Snow, Ice pellets: Total	Greatest in 24 hrs.	Date	Relative humidity (Local time): Hour 00	Hour 06	Hour 12	Hour 18	Wind &: Resultant: Direction	Speed	Average speed	Fastest mile: Speed	Direction #	Date	Percent of possible sunshine	Average sky cover sunrise to sunset	Number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog	Temperatures: Maximum ‡: 90° and above	32° and below	Minimum: 32° and below	0° and below	Average daily solar radiation - langleys
JAN	24.3	5.2	14.8	43	25	-19	7	1556	0	1.79	1.70	3	17.7	16.4	3	69	69	63	65	26	5.7	11.4	44	W	25	62	5.6	10	8	13	5	1	1	0	0	21	31	12	
FEB	32.8	19.0	25.9	64	26	-8	8	1088	0	1.57	0.50	4-5	2.6	2.0	5	73	71	68	69	26	4.8	12.3	39	NE	22	47	6.8	8	2	18	8	1	3	5	0	12	24	5	
MAR	43.5	25.9	34.7	77	31	12	4	931	0	1.99	0.71	14	7.8	3.5	9	71	75	54	59	29	3.5	12.9	34	W	15	49	6.7	8	8	15	8	3	1	2	0	4	24	0	
APR	64.8	36.9	50.9	87	12	20	4	425	9	1.86	1.42	27	T	T	2	59	69	39	37	26	1.9	11.8	47	E	27	76	4.9	14	8	8	6	0	5	0	0	0	10	0	
MAY	70.3	45.6	58.0	89	17	31	13	242	32	3.14	1.11	24	0.0	0.0		71	75	50	47	22	2.1	9.9	35	W	23	57	5.7	10	6	15	10	0	7	0	0	0	1	0	
JUN	88.2	65.0	76.6	99	19	56	9	0	355	2.36	0.88	24	0.0	0.0		76	80	52	51	20	3.5	8.7	41	SW	11	63	5.8	6	16	8	6	0	7	1	13	0	0	0	
JUL	81.5	59.9	70.7	93	8	46	31+	17	203	11.22	5.08	10	0.0	0.0		84	87	57	59	23	2.2	7.9	40	NW	12	70	5.8	8	12	11	11	0	9	3	2	0	0	0	
AUG	84.7	59.1	71.9	95	24+	50	28+	3	225	0.35	0.23	10	0.0	0.0		78	87	52	56	18	0.9	7.0	31	NW	10	78	4.9	10	11	10	4	0	4	0	7	0	0	0	
SEP	80.1	57.2	68.7	95	8	37	24	94	212	4.54	4.54	4-5	0.0	0.0		78	88	52	61	19	2.4	7.7	29	SW	28	74	4.7	12	10	8	7	0	2	2	8	0	0	0	
OCT	70.9	48.8	59.9	87	1	32	31+	195	44	2.64	0.98	2-3	0.0	0.0		80	85	57	64	21	3.7	8.5	39	SW	27	61	5.5	9	12	10	11	0	2	4	0	0	2	0	
NOV	49.3	30.7	40.0	75	14	12	7	740	0	2.21	0.72	18	5.9	4.0	28-29	71	75	58	64	24	4.0	10.9	34	SW	19+	41	6.4	8	8	14	9	2	0	2	0	1	16	0	
DEC	38.0	25.2	31.6	51	15	10	18	1026	0	4.77	2.37	14-15	0.3	0.3	4	80	81	74	79	25	2.1	8.9	37	S	15	25	8.0	4	5	22	11	0	2	5	0	4	23	0	
YEAR	60.7	39.9	50.3	99	JUN. 19	-19	JAN. 7	6317	1080	38.44	5.08	JUL. 10	34.3	16.4	JAN. 3	74	79	56	59	24	2.7	9.8	47	E	APR. 27	60	5.9	107	106	152	96	7	43	24	30	42	131	17	

NORMALS, MEANS, AND EXTREMES

Month	Temperature: Normal: Daily maximum	Daily minimum	Monthly	Extremes: Record highest	Year	Record lowest	Year	Normal heating degree days (Base 65°)	Precipitation: Normal total	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year	Snow, Ice pellets: Mean total	Maximum monthly	Year	Maximum in 24 hrs.	Year	Relative humidity (Local time): Hour 00	Hour 06	Hour 12	Hour 18	Wind &: Mean speed	Prevailing direction	Fastest mile: Speed	Direction #	Year	Pct. of possible sunshine	Mean sky cover sunrise to sunset	Mean number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog	Temperatures: Max. ‡: 90° and above	32° and below	Min.: 32° and below	0° and below	Average daily solar radiation - langleys
(a)	(b)	(b)	(b)	12		12		(b)	(b)	42		42		42		39	40		38		11	11	11	11	28	12	43	43		28	29	38	38	38	39	39	38	37	11	11	11	11	
J	31.6	13.6	22.6	63	1967	-26	1963	1314	1.61	4.08	1965	0.31	1961+	2.07	1960	7.5	17.7	1971	16.4	1971	72	73	66	69	10.6	WNW	56	SW	1946	48	6.5	8	7	16	9	2	*	3	0	19	30	10	
F	34.8	16.6	25.7	64	1971+	-16	1963	1100	1.35	2.78	1960	0.17	1933	1.90	1948	5.2	19.3	1960	8.5	1960	72	74	63	65	11.0	WNW	58	NW	1948	49	6.3	7	6	15	8	2	*	2	0	13	27	3	
M	45.1	25.6	35.4	80	1968	-19	1960	918	2.39	5.27	1944	0.31	1958	2.38	1944	6.4	17.0	1951	8.2	1952	74	77	60	62	12.0	WNW	66	SW	1954+	51	6.7	7	8	16	11	2	2	2	0	4	23	*	
A	61.7	38.3	50.0	91	1970	20	1971	450	3.17	7.92	1965	0.68	1946	2.80	1959	0.7	8.3	1970	8.2	1970	74	80	55	55	12.2	NW	73	SW	1947	54	6.5	7	8	15	11	*	5	1	*	0	7	0	
M	73.1	49.2	61.2	94	1967	26	1966	189	3.80	11.07	1970	0.55	1928	3.68	1970	T	0.3	1935	0.3	1935	75	80	53	52	10.5	E	68	SW	1955	58	6.3	7	9	15	12	0	7	1	1	0	1	0	
J	83.2	59.5	71.4	99	1971	41	1966	39	4.37	8.15	1967	1.02	1963	5.02	1967	0.0	0.0		0.0		78	82	54	55	9.1	S	77	SW	1947	64	6.1	7	10	13	10	0	8	1	7	0	0	0	
J	88.0	63.2	75.6	100	1966	46	1971	0	3.26	11.39	1969	1.02	1955	5.41	1963	0.0	0.0		0.0		83	86	58	60	7.5	E	65	W	1953	71	5.3	10	12	9	9	0	9	1	7	0	0	0	
A	85.7	61.4	73.6	97	1963	44	1963	9	3.53	9.31	1965	0.35	1971	4.60	1951	0.0	0.0		0.0		84	89	56	60	7.1	E	61	SW	1931	71	5.2	11	10	10	8	0	7	2	5	0	0	0	
S	78.1	52.5	65.3	98	1960	32	1967+	99	3.25	14.18	1970	0.49	1956	6.29	1961	T	0.1	1942	0.1	1942	84	88	58	68	8.1	S	66	NW	1945	66	5.1	12	8	10	9	0	5	2	2	0	*	0	
O	67.1	42.4	54.8	92	1963	19	1962	335	2.46	9.41	1941	0.01	1964	4.89	1954	0.2	6.6	1967	6.5	1967	77	83	54	63	9.1	S	56	SW	1949	62	5.1	12	8	11	7	*	2	2	*	0	5	0	
N	48.9	29.5	39.2	77	1961	3	1964	774	1.95	6.47	1934	0.29	1933	2.73	1961	1.6	9.1	1959	5.7	1959	77	81	62	70	10.8	WNW	60	W	1952	44	6.6	7	8	15	7	*	1	1	0	1	18	0	
D	35.4	18.3	26.9	69	1970	-22	1963	1181	1.65	4.81	1942	0.23	1929	3.38	1942	6.5	16.7	1951	8.4	1954	77	79	70	74	10.5	WNW	61	SW	1947	42	6.8	7	6	18	9	2	1	2	0	14	27	3	
YR	61.1	39.2	50.1	100	JUL. 1966	-26	JAN. 1963	6408	32.79	14.18	SEP. 1970	0.01	OCT. 1964	6.29	SEP. 1961	28.1	19.3	FEB. 1960	16.4	JAN. 1971	77	81	59	63	9.9	WNW	77	SW	JUN. 1947	58	6.1	102	100	163	110	9	47	20	22	51	137	17	

Means and extremes above are from existing and comparable exposures. Annual extremes have been exceeded at other sites in the locality as follows:
Highest temperature 106 in August 1936.

(a) Length of record, years, based on January data. Other months may be for more or fewer years if there have been breaks in the record.
(b) Climatological standard normals (1931-1960).
* Less than one half.
\+ Also on earlier dates, months, or years.
T Trace, an amount too small to measure.
Below zero temperatures are preceded by a minus sign.
The prevailing direction for wind in the Normals, Means, and Extremes table is from records through 1963.
‡ ≥ 70° at Alaskan stations.

Unless otherwise indicated, dimensional units used in this bulletin are: temperature in degrees F.; precipitation, including snowfall, in inches; wind movement in miles per hour; and relative humidity in percent. Heating degree day totals are the sums of negative departures of average daily temperatures from 65° F. Cooling degree day totals are the sums of positive departures of average daily temperatures from 65° F. Sleet was included in snowfall totals beginning with July 1948. The term "ice pellets" includes solid grains of ice (sleet) and particles consisting of snow pellets encased in a thin layer of ice. Heavy fog reduces visibility to 1/4 mile or less.

Sky cover is expressed in a range of 0 for no clouds or obscuring phenomena to 10 for complete sky cover. The number of clear days is based on average cloudiness 0-3, partly cloudy days 4-7, and cloudy days 8-10 tenths.

Solar radiation data are the averages of direct and diffuse radiation on a horizontal surface. The langley denotes one gram calorie per square centimeter.

& Figures instead of letters in a direction column indicate direction in tens of degrees from true North; i.e., 09 - East, 18 - South, 27 - West, 36 - North, and 00 - Calm. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations. If figures appear in the direction column under "Fastest mile" the corresponding speeds are fastest observed 1-minute values.

\# To 8 compass points only.

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AVERAGE TEMPERATURE

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1932	29.4	33.2	28.4	49.3	62.9	72.8	75.4	72.2	62.6	50.0	34.2	24.8	49.6
1933	34.8	23.7	36.4	48.6	61.6	77.6	76.0	71.0	70.2	50.0	37.7	29.0	51.4
1934	30.0	22.2	33.8	50.4	68.4	78.1	79.2	71.7	62.5	56.3	44.3	22.4	51.6
1935	22.8	29.2	41.0	47.2	54.8	66.4	79.1	74.2					
1936								80.1	68.6	53.6	37.6		
1937			34.4	48.9	63.0	70.9	76.4	77.4	65.8	51.6	36.4	24.6	
1938	22.4	34.4	44.8	52.4	61.4	69.0	77.0	76.3	67.5	58.6	40.4	27.0	52.6
1939	29.6	24.4	38.0	46.6	65.8	72.2	75.7	71.0	68.8	54.2	39.6	33.1	51.6
1940	10.0	26.2	32.3	47.8	57.8	72.6	76.9	72.1	64.3	57.0	36.0	31.5	48.7
1941	25.6	22.4	33.6	54.4	65.8	71.6	75.0	74.8	67.5	55.6	41.6	34.1	51.8
1942	22.5	24.6	39.5	55.3	60.8	71.0	75.0	71.7	63.0	53.2	39.7	21.0	49.8
1943	19.6	27.3	32.3	48.2	57.8	73.2	75.9	74.8	61.2	52.2	35.0	26.9	48.7
1944	30.1	27.4	32.6	46.4	66.2	73.6	73.8	73.4	66.2	53.4	42.5	20.2	50.5
1945	18.2	27.7	48.8	51.6	55.6	66.5	72.2	73.2	63.9	51.0	38.6	19.7	48.9
1946	25.6	29.5	48.0	53.5	57.8	70.2	74.8	69.2	64.8	57.8	40.8	31.4	52.0
1947	27.0	20.1	32.5	48.8	56.5	67.4	72.2	81.0	68.2	62.6	33.8	30.2	50.0
1948	17.5	24.4	35.6	55.2	57.8	69.0	75.1	73.6	67.6	51.1	41.3	29.0	49.8
1949	23.0	24.8	37.1	49.4	63.8	73.6	78.0	73.5	59.0	57.0	41.8	31.0	51.0
1950	25.9	24.7	32.9	43.6	62.0	69.6	71.1	68.5	64.1	59.2	33.8	19.1	47.9
1951	20.6	25.6	31.8	47.3	63.3	67.2	72.9	71.5	61.8	54.6	32.6	23.4	47.7
1952	25.1	31.4	33.5	52.1	60.6	75.7	76.4	71.1	64.7	46.6	41.4	30.5	50.7
1953	25.3	30.0	37.3	45.9	60.5	74.3	75.9	74.3	65.4	57.9	42.8	30.0	51.6
1954	23.3	36.3	34.0	53.7	56.1	74.6	76.2	72.0	67.5	53.1	40.7	29.1	51.4
1955	22.0	25.3	36.0	57.0	63.8	67.8	80.5	76.8	66.4	53.6	34.2	24.2	50.6
1956	22.7	26.9	36.1	47.1	62.6	74.0	73.2	73.3	63.4	59.0	38.4	28.9	50.5
1957	16.6	32.5	37.0	50.4	59.6	70.4	76.7	73.2	61.9	49.8	38.1	32.8	49.9
1958	22.2	16.7	35.7	50.5	62.2	66.3	71.3	73.5	64.4	56.0	42.0	22.2	48.6
1959	15.7	25.7	36.9	49.4	65.3	72.0	73.2	77.2	66.3	49.9	31.4	34.7	49.8
#1960	25.7	22.3	19.9	53.4	58.9	68.5	72.8	73.8	68.6	53.8	41.5	23.7	48.6
1961	21.1	30.7	39.3	44.3	58.1	71.9	74.2	73.9	66.1	55.4	40.8	23.0	49.9
1962	16.2	23.7	32.6	49.3	67.9	70.6	71.6	72.9	61.7	55.2	39.0	23.2	48.7
1963	9.7	17.9	41.1	52.9	60.0	73.5	74.8	70.8	64.9	64.4	43.1	13.8	48.9
1964	28.4	27.0	34.4	51.5	66.3	72.3	76.6	70.8	65.6	50.7	44.2	24.8	51.1
1965	21.4	25.7	26.9	49.2	65.9	69.6	74.9	71.1	63.5	53.6	40.7	34.5	49.8
1966	14.3	24.8	39.2	47.0	56.3	70.5	77.9	70.6	62.9	52.5	41.7	28.1	48.8
1967	26.0	18.7	39.0	51.6	56.4	70.9	71.4	67.7	62.1	52.1	36.1	28.5	48.4
1968	21.0	22.7	41.9	51.3	57.2	72.1	73.1	73.5	63.1	53.2	37.3	24.5	49.3
1969	17.9	27.9	32.2	51.6	61.7	67.1	75.0	73.7	64.9	51.7	37.9	24.3	48.8
1970	13.1	24.7	33.6	51.8	64.9	70.7	75.7	72.9	65.2	53.9	39.2	28.9	49.5
1971	14.8	25.9	34.7	50.9	58.0	76.6	70.7	71.9	68.7	59.9	40.0	31.6	50.3
RECORD MEAN	22.0	26.5	35.8	50.2	61.1	71.4	75.1	73.2	65.2	54.3	39.1	27.0	50.1
MAX	30.5	35.1	45.0	61.0	72.1	82.2	86.2	84.3	76.8	65.9	48.3	35.0	60.2
MIN	13.4	17.8	26.5	39.3	50.0	60.5	64.0	62.0	53.5	42.7	29.8	19.0	39.9

TOTAL DEGREE DAYS

MOLINE, ILLINOIS

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1942-43							1407	1056	1016	506	267	30	
1943-44	1	3	164	400	898	1180	1082	1092	1007	555	137	26	6545
1944-45	2	8	77	362	674	1391	1452	1044	505	408	312	81	6316
1945-46	13	9	139	437	795	1402	1223	993	526	357	233	59	6186
1946-47	0	19	99	240	730	1043	1176	1253	1011	487	276	59	6393
1947-48	10	0	117	148	932	1078	1471	1177	914	328	232	17	6424
1948-49	0	4	69	431	709	1114	1302	1126	868	471	127	6	6227
1949-50	0	3	204	289	695	1055	1204	1126	989	636	129	34	6364
1950-51	4	24	82	222	930	1416	1372	1096	1020	543	132	37	6878
1951-52	3	4	130	350	965	1283	1232	967	970	399	195	6	6504
1952-53	0	9	97	565	702	1062	1224	974	850	570	204	2	6259
1953-54	0	1	95	266	660	1078	1284	796	953	355	291	39	5818
1954-55	0	2	58	395	722	1108	1329	1107	891	236	100	44	5992
1955-56	0	0	71	356	914	1259	1305	1096	890	537	155	26	6609
1956-57	0	13	109	189	790	1109	1492	902	861	448	191	23	6127
1957-58	0	2	136	467	800	989	1319	1345	898	435	125	41	6557
1958-59	4	21	93	289	685	1319	1523	1096	861	462	114	8	6475
#1959-60	4	1	100	462	1002	932	1212	1229	1392	376	203	13	6926
1960-61	2	1	55	348	700	1277	1355	954	789	614	242	12	6349
1961-62	1	0	121	309	722	1297	1510	1150	999	481	78	22	6690
1962-63	8	1	149	342	774	1292	1717	1315	734	370	186	15	6903
1963-64	0	16	83	108	653	1585	1129	1097	942	405	71	20	6109
1964-65	3	24	100	437	624	1241	1344	1096	1174	471	86	3	6603
1965-66	0	21	115	363	722	939	1568	1119	794	533	287	31	6492
1966-67	0	6	116	386	695	1137	1202	1289	802	404	305	10	6352
1967-68	21	33	136	424	860	1127	1354	1221	711	409	248	18	6562
1968-69	8	15	96	404	826	1247	1458	1032	1010	398	172	57	6723
1969-70	0	0	80	445	805	1253	1607	1120	967	419	118	21	6835
1970-71	0	2	92	350	764	1111	1556	1088	931	425	242	0	6561
1971-72	17	3	94	195	740	1026							

TOTAL PRECIPITATION

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1932	0.95	0.54	1.81	1.32	4.53	4.80	3.71	7.12	0.86	3.13	1.11	1.98	31.86
1933	2.10	0.17	3.47	1.81	7.60	5.19	1.86	1.87	2.37	1.70	0.29	1.36	29.79
1934	0.75	0.66	1.15	0.96	0.98	4.21	3.98	4.51	8.88	1.34	6.47	1.05	34.94
1935	1.49	1.26	2.83	2.04	6.16	5.74	1.73	2.95					
1936									10.35	1.47	1.53		
1937			1.13	3.69	4.15	2.35	3.56	1.34	1.22	2.11	0.79	0.91	
1938	2.54	1.68	2.94	3.24	6.78	4.63	5.81	3.49	6.84	1.52	2.45	0.88	42.80
1939	1.67	1.70	2.68	3.56	2.28	3.99	2.45	5.59	0.94	2.96	0.94	0.30	29.06
1940	1.26	0.53	1.57	3.01	1.37	1.19	2.34	4.88	1.54	2.02	1.57	1.57	22.85
1941	2.86	0.53	1.38	4.49	3.49	6.46	1.67	1.66	5.45	9.41	1.25	1.43	40.08
1942	0.78	1.08	1.39	0.92	4.06	5.73	4.18	2.80	2.95	0.92	2.99	4.81	32.61
1943	1.36	1.84	1.49	5.61	6.38	4.55	2.10	4.31	1.23	3.24	1.77	0.41	34.29
1944	0.60	1.99	5.27	5.55	4.60	6.19	2.40	2.88	1.60	1.06	2.98	1.54	36.66
1945	0.44	0.90	3.36	3.88	5.07	2.52	1.39	3.86	4.74	1.09	1.71	1.69	30.65
1946	2.53	0.28	4.64	0.68	4.10	6.42	1.47	3.91	3.47	1.65	2.49	1.43	33.07
1947	2.08	0.23	2.10	7.36	3.70	5.99	4.08	0.52	5.13	0.88	1.92	1.64	35.63
1948	0.84	2.35	3.46	1.67	2.11	2.91	8.27	2.83	3.66	1.81	2.23	2.21	34.35
1949	3.28	1.78	2.76	1.10	1.82	5.45	3.40	7.12	1.96	2.27	0.71	2.91	34.56
1950	3.56	1.76	1.09	5.87	3.01	5.11	4.41	1.87	3.85	0.61	0.73	1.01	32.88
1951	1.05	2.56	5.06	3.60	5.90	6.65	5.60	8.00	3.47	3.75	1.68	1.28	48.60
1952	1.57	0.78	3.88	1.17	2.22	7.13	2.66	3.50	0.77	0.04	2.99	1.93	28.64
1953	1.04	2.72	2.68	1.73	3.18	3.43	4.88	1.05	1.79	1.00	1.07	1.90	26.47
1954	0.34	1.69	3.13	4.58	3.58	5.10	1.98	6.67	1.59	7.43	0.75	2.02	38.86
1955	2.03	1.88	1.20	5.33	2.30	3.65	1.02	2.44	2.40	2.70	0.60	0.54	26.09
1956	0.31	1.39	0.54	2.15	2.27	1.55	4.09	3.34	0.49	0.40	2.43	1.24	20.20
1957	1.33	1.57	2.90	3.49	4.11	2.52	4.47	3.17	1.16	2.00	2.38	3.82	32.92
1958	1.26	0.49	0.31	2.53	3.96	3.77	4.62	1.09	3.00	1.75	1.17	0.50	24.45
1959	1.41	1.77	3.06	4.75	5.31	3.62	4.48	3.90	4.29	5.59	1.50	2.42	42.10
1960	3.43	2.78	1.28	4.89	3.98	5.40	3.40	3.97	3.42	4.91	1.11	0.88	39.45
1961	0.31	1.20	4.48	2.19	1.98	3.69	7.63	2.37	11.00	4.53	4.94	1.58	45.90
1962	2.08	1.84	2.42	2.44	6.10	1.48	6.73	1.95	2.90	4.15	1.21	0.55	33.85
1963	0.91	0.37	3.29	4.24	2.36	1.02	8.78	4.02	2.38	0.63	1.84	0.94	30.78
1964	1.59	0.73	4.02	6.37	2.68	3.89	5.31	2.41	3.99	0.01	3.40	1.27	35.67
1965	4.08	0.97	2.52	7.92	4.04	2.07	4.78	9.31	8.27	0.88	1.93	2.82	49.59
1966	2.01	0.89	0.85	3.96	6.39	4.25	7.74	0.77	2.80	4.38	1.12	2.52	37.68
1967	2.00	1.11	1.68	4.91	1.70	8.15	4.15	3.62	4.99	6.23	2.26	1.56	42.36
1968	0.80	0.32	1.96	3.57	2.59	3.70	3.91	2.16	5.70	1.09	3.29	2.76	31.85
1969	3.28	0.21	2.25	3.11	3.40	6.97	11.39	2.00	2.50	4.63	0.53	1.52	41.79
1970	0.54	0.57	2.62	4.66	11.07	3.25	6.27	3.61	14.18	1.75	1.25	1.95	51.72
1971	1.79	1.57	1.99	1.86	3.14	2.36	11.22	0.35	4.54	2.64	2.21	4.77	38.44
RECORD MEAN	1.60	1.25	2.42	3.55	3.83	4.27	4.36	3.37	3.88	2.67	2.05	1.65	34.90

TOTAL SNOWFALL

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1932-33	0.0	0.0	0.0	0.0	1.1	3.5	2.8	2.1	4.1	0.8	0.0	0.0	14.4
1933-34	0.0	0.0	0.0	T	0.3	3.5	2.6	6.4	3.6	T	0.0	0.0	16.4
1934-35	0.0	0.0	0.0	0.0	T	9.3	1.9	2.8	8.9	0.2	0.3	0.0	23.4
1935-36	0.0	0.0	0.0	0.0								0.0	
1936-37	0.0	0.0	0.0	T	T				5.0	T	0.0	0.0	
1937-38	0.0	0.0	0.0	0.0	4.0	5.7	3.7	1.7	0.6	0.8	0.0	0.0	16.5
1938-39	0.0	0.0	0.0	0.1	0.4	3.1	11.8	6.1	2.5	T	0.0	0.0	24.0
1939-40	0.0	0.0	0.0	T	0.0	T	12.6	3.4	3.1	0.0	0.0	0.0	19.1
1940-41	0.0	0.0	0.0	0.0	2.3	1.4	14.5	3.9	11.5	0.0	0.0	0.0	33.6
1941-42	0.0	0.0	0.0	0.0	1.3	4.4	4.8	6.1	0.8	0.0	0.0	0.0	17.4
1942-43	0.0	0.0	0.1	T	1.6	7.6	11.1	2.5	5.3	T	0.0	0.0	28.2
1943-44	0.0	0.0	0.0	0.0	T	0.4	T	12.6	4.3	T	T	0.0	17.3
1944-45	0.0	0.0	0.0	0.0	0.3	13.9	5.8	4.3	0.7	T	T	0.0	25.0
1945-46	0.0	0.0	0.0	0.0	1.0	11.4	2.5	4.4	2.8	T	0.0	0.0	22.1
1946-47	0.0	0.0	0.0	T	0.0	5.3	8.5	4.3	7.2	T	0.0	0.0	25.3
1947-48	0.0	0.0	0.0	0.0	7.7	1.8	3.8	3.0	8.0	0.0	0.0	0.0	24.3
1948-49	0.0	0.0	0.0	0.0	T	6.2	5.3	2.5	0.9	1.1	0.0	0.0	16.0
1949-50	0.0	0.0	0.0	0.0	0.5	2.3	1.7	7.9	2.5	0.4	0.0	0.0	15.3
1950-51	0.0	0.0	0.0	0.0	2.1	7.3	7.1	4.9	17.0	1.4	0.0	0.0	39.8
1951-52	0.0	0.0	0.0	T	3.4	16.7	4.7	5.9	15.2	T	0.0	0.0	45.9
1952-53	0.0	0.0	0.0	0.0	T	2.5	12.1	6.2	7.1	0.4	0.0	0.0	28.3
1953-54	0.0	0.0	0.0	0.0	1.4	7.8	1.4	4.9	2.2	0.0	T	0.0	17.7
1954-55	0.0	0.0	0.0	T	3.7	16.2	11.2	6.1	8.8	0.0	0.0	0.0	46.0
1955-56	0.0	0.0	0.0	T	2.0	2.9	2.2	7.5	0.7	0.3	0.0	0.0	15.6
1956-57	0.0	0.0	0.0	0.0	2.1	6.5	11.8	0.7	6.9	6.5	0.0	0.0	34.5
1957-58	0.0	0.0	0.0	0.0	0.3	6.4	14.0	1.7	2.0	T	0.0	0.0	24.4
1958-59	0.0	0.0	0.0	0.0	0.9	8.1	15.1	3.6	13.9	1.7	0.0	0.0	43.3
1959-60	0.0	0.0	0.0	T	9.1	9.9	8.5	19.3	14.7	T	T	0.0	61.5
1960-61	0.0	0.0	0.0	0.0	T	5.5	3.4	2.5	2.4	2.5	0.0	0.0	16.3
1961-62	0.0	0.0	0.0	0.0	T	13.6	11.2	15.8	7.1	0.2	0.0	0.0	47.9
1962-63	0.0	0.0	0.0	0.2	T	3.1	14.7	5.8	7.3	0.0	0.0	0.0	31.1
1963-64	0.0	0.0	0.0	0.0	T	9.7	5.3	5.5	13.9	T	0.0	0.0	34.4
1964-65	0.0	0.0	0.0	0.0	2.1	11.7	10.2	7.4	16.2	0.0	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.3	5.7	6.0	0.8	0.7	0.1	T	0.0	13.6
1966-67	0.0	0.0	0.0	0.0	T	7.2	14.4	13.2	2.2	1.1	0.0	0.0	38.1
1967-68	0.0	0.0	0.0	6.6	0.3	3.2	8.6	2.8	1.1	T	0.0	0.0	22.6
1968-69	0.0	0.0	0.0	T	5.9	5.4	6.2	0.9	5.6	0.0	T	0.0	24.0
1969-70	0.0	0.0	0.0	0.0	1.5	15.4	7.2	6.1	12.7	8.3	0.0	0.0	51.2
1970-71	0.0	0.0	0.0	0.0	0.2	2.2	17.7	2.6	7.8	T	0.0	0.0	30.5
1971-72	0.0	0.0	0.0	0.0	5.9	0.3							

Record mean values above (not adjusted for instrument location changes listed in the Station Location table) are means for the period beginning in 1930 for temperature and 1927 for precipitation.

# Indicates a break in the data sequence during the year, or season, due to a station move or relocation of instruments. See Station Location table.

STATION LOCATION

MOLINE, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Elevation above Ground: Extreme thermometers	Elevation above Ground: Psychrometer	Elevation above Ground: Telepsychrometer	Elevation above Ground: Tipping bucket rain gage	Elevation above Ground: Weighing rain gage	Elevation above Ground: 8" rain gage	Elevation above Ground: Hygrothermometer	Elevation above Sea level: Pyranometer	Remarks
NE Corner, Moline AP 4.5 miles S of Moline Post Office	10/01/26	12/27/39		41° 27'	90° 31'	589	53	3	3				3			
Administration Building Quad City Airport	12/27/39	4/03/61	1200 feet W	41° 27'	90° 31'	g582	a25	b36	c36	d5		e5	15	f4		a - 54 feet for autographic record and 62 feet for direct reading until moved to field 11/13/58. b - 5 feet to 5/31/55 and 6/7/56 to 4/16/58. c - 5 feet to 12/1/54 and 6/7/56 to 4/16/58. d - Added 6/7/56; removed 3/1/60. e - 4 feet to 4/16/58. f - Commissioned 3/1/60. g - 589 feet to 3/1/60.
Terminal Building Quad City Airport	4/16/61	Present	200 feet SE	41° 27'	90° 31'	582	25	17	17			h16	15	4		h - 5 feet to 7/22/63.

Requests for additional information should be directed to the National Weather Service Office for which this summary was issued.

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LOCAL CLIMATOLOGICAL DATA
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MOLINE, ILLINOIS

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NARRATIVE CLIMATOLOGICAL SUMMARY

This area has a temperate continental climate, with a wide temperature range throughout the year. There are some intensely hot, usually humid, periods in summer and severely cold periods in winter. Maxima of 90° or higher have occurred as frequently as on 53 days (1936), but in 1882 there were none. Zero or lower readings have occurred during every winter of record.

Freezing temperatures have occurred as late in spring as May 22 and as early in autumn as September 18. Precipitation usually is well distributed throughout the year. Normally the greatest amounts fall during the 180-day average crop growing season (April 19-October 15, inclusive). Substantial weather changes frequently occur at 3-or 4-day intervals, as a direct result of proximity to some of the most important storm tracks.

The locality is in the heart of the Corn Belt. Agricultural crops include many important staple products in addition to corn. Cattle, hogs, horses, and poultry produced in Iowa and Illinois rank high in the nation. Close to the Mississippi River there is large scale truck gardening and considerable dairying. Field production of grains and livestock attains greater development farther away from the large streams, where the countryside is rolling prairie. Damaging drouths are not common. This, together with the variety of agricultural products, has led to designating the section as the "Bread Basket" or the "Garden Spot" of America.

The climate is favorable for many industries as evidenced by the large number and variety of manufacturing and other enterprises which have located and developed in the community. Among these are some of the world's largest producers of agricultural machinery.

Records began in Davenport, Iowa, in May 1871, and have been continuous to date. At the Quad-City Airport, Moline, Illinois, records began in October 1926, but are not complete in the years 1935. 1936, and 1937. For a summary of data from Lock & Dam No. 15, Davenport, Iowa, please refer to IOWA CLIMATOLOGICAL DATA.

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METEOROLOGICAL DATA FOR THE CURRENT YEAR

Station: MOLINE, ILLINOIS — QUAD CITY AIRPORT — Standard time used: CENTRAL — Latitude: 41° 27' N — Longitude: 90° 31' W — Elevation (ground): 582 feet — Year: 1970

Month	Temperature: Averages: Daily maximum	Temperature: Averages: Daily minimum	Temperature: Averages: Monthly	Temperature: Extremes: Highest	Temperature: Extremes: Date	Temperature: Extremes: Lowest	Temperature: Extremes: Date	Degree days (Base 65°): Heating	Degree days (Base 65°): Cooling	Precipitation: Total	Precipitation: Greatest in 24 hrs.	Precipitation: Date	Snow, Ice pellets: Total	Snow, Ice pellets: Greatest in 24 hrs.	Snow, Ice pellets: Date	Relative humidity (Local time): Hour 00	Hour 06	Hour 12	Hour 18	Wind &: Resultant: Direction	Resultant: Speed	Average speed	Fastest mile*: Speed	Direction #	Date	Percent of possible sunshine	Average sky cover sunrise to sunset	Number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog	Temperatures: Maximum: ‡ 90° and above	32° and below	Minimum: 32° and below	0° and below	Average daily solar radiation - langleys
JAN	21.3	4.8	13.1	48	31	-21	21	1607	0	0.54	0.25	22	7.2	3.0	22	72	72	66	69	26	6.3	11.1	28	W	25	54	5.3	13	4	14	10	2	0	2	0	21	30	11	
FEB	35.1	14.3	24.7	54	21	-10	13	1120	0	0.57	0.19	8	6.1	1.9	8	69	70	60	65	27	5.5	12.1	30	NW	2	66	5.4	9	9	10	7	3	0	2	0	12	27	4	
MAR	42.4	24.7	33.6	60	3	11	28+	967	0	2.62	1.33	25-26	12.7	8.0	25	76	79	61	62	36	3.0	11.3	26	NW	20	54	6.6	7	9	15	10	4	1	2	0	3	27	0	
APR	62.1	41.5	51.8	91	29	28	7+	419	32	4.66	1.43	12-13	8.3	8.2	1-2	77	80	58	57	21	2.8	14.0	47	E	19	57	5.9	7	11	12	14	2	8	0	1	0	8	0	
MAY	75.9	53.8	64.9	90	22	36	2	118	119	11.07	3.68	12-13	0.0	0.0		76	77	56	55	20	5.0	11.3	56	SW	9	62	5.7	11	5	15	12	0	11	0	1	0	0	0	
JUN	80.5	60.8	70.7	97	30	50	6+	21	198	3.25	0.98	14-15	0.0	0.0		76	81	57	56	18	2.4	9.8	30	W	17+	66	5.8	9	10	11	10	0	7	0	4	0	0	0	
JUL	86.7	64.7	75.7	98	2	52	6	0	341	6.27	2.51	14-15	0.0	0.0		77	83	51	54	24	3.1	8.7	55	W	31	70	4.2	14	11	6	9	0	8	0	12	0	0	0	
AUG	82.9	62.8	72.9	91	30+	52	21	2	256	3.61	1.65	18	0.0	0.0		84	89	58	64	15	1.4	7.4	22	SW	30+	66	4.4	16	8	7	9	0	7	0	3	0	0	0	
SEP	75.3	55.1	65.2	90	7	39	28	92	105	14.18	3.27	2-3	0.0	0.0		84	87	65	74	20	2.0	8.8	49	W	9	55	5.8	9	7	14	16	0	12	0	1	0	0	0	
OCT	64.3	43.5	53.9	82	5	27	16	350	15	1.75	0.77	26-27	0.0	0.0		80	84	58	67	19	3.9	9.1	27	SW	9	50	6.2	7	9	15	7	0	3	1	0	0	3	0	
NOV	47.2	31.2	39.2	63	6	7	23	764	0	1.25	0.88	19-20	0.2	0.2	22	76	78	65	72	26	1.9	11.1	39	NW	23	44	7.8	2	8	20	8	0	0	3	0	2	13	0	
DEC	36.9	20.9	28.9	69	3	5	28+	1111	0	1.95	1.50	10	2.2	1.0	16	73	76	63	69	26	3.2	11.0	43	W	3	52	5.9	11	5	15	9	1	1	2	0	9	25	0	
YEAR	59.2	39.8	49.5	98	JUL. 2	-21	JAN. 21	6571	1066	51.72	3.68	MAY 12-13	36.7	8.2	APR. 1-2	77	80	60	64	23	2.4	10.5	56	SW	MAY 9	59	5.8	115	96	154	121	12	58	12	22	47	133	15	

NORMALS, MEANS, AND EXTREMES

Month	Temperature: Normal: Daily maximum	Normal: Daily minimum	Normal: Monthly	Extremes: Record highest	Year	Record lowest	Year	Normal heating degree days (Base 65°)	Precipitation: Normal total	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year	Snow, Ice pellets: Mean total	Maximum monthly	Year	Maximum in 24 hrs.	Year	Relative humidity (Local time): Hour 00	Hour 06	Hour 12	Hour 18	Wind &: Mean speed	Prevailing direction	Fastest mile: Speed	Direction #	Year	Pct. of possible sunshine	Mean sky cover sunrise to sunset	Mean number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Ice pellets 1.0 inch or more	Thunderstorms	Heavy fog	Temperatures: Max.: ‡ 90° and above	32° and below	Min.: 32° and below	0° and below	Average daily solar radiation - langleys
				11		11				41		41		41		38	39		37		10	10	10	10	27	12	42	42		27	28	37	37	37	38	38	37	36	10	10	10	10	
(a)	(b)	(b)	(b)					(b)	(b)																																			
J	31.6	13.6	22.6	63	1967	-26	1963	1314	1.61	4.08	1965	0.31	1961+	2.07	1960	7.2	15.1	1959	11.7	1967	72	74	66	69	10.6	WNW	56	SW	1946	47	6.6	8	7	16	9	2	*	3	0	19	29	9	
F	34.8	16.6	25.7	64	1965	-16	1963	1100	1.35	2.78	1960	0.17	1933	1.90	1948	5.3	19.3	1960	8.5	1960	72	74	63	65	10.9	WNW	58	NW	1948	49	6.3	7	7	14	8	2	*	2	0	13	27	3	
M	45.1	25.6	35.4	80	1968	-19	1960	918	2.39	5.27	1944	0.31	1958	2.38	1944	6.4	17.0	1951	8.2	1952	75	78	61	62	12.0	WNW	66	SW	1954+	51	6.8	7	8	16	11	2	2	2	0	4	23	*	
A	61.7	38.3	50.0	91	1970	21	1962+	450	3.17	7.92	1965	0.68	1946	2.80	1959	0.7	8.3	1970	8.2	1970	76	81	57	57	12.3	NW	73	SW	1947	53	6.6	6	9	15	11	*	5	1	*	0	7	0	
M	73.1	49.2	61.2	94	1967	26	1966	189	3.80	11.07	1970	0.55	1928	3.68	1970	T	0.3	1935	0.3	1935	76	81	54	53	10.5	E	68	SW	1955	58	6.4	7	9	15	12	0	7	1	1	0	1	0	
J	83.2	59.5	71.4	98	1963	41	1966	39	4.37	8.15	1967	1.02	1963	5.02	1967	0.0	0.0		0.0		78	83	54	55	9.1	S	77	SW	1947	64	6.2	7	10	13	10	0	8	1	6	0	0	0	
J	88.0	63.2	75.6	100	1966	47	1968	0	3.26	11.39	1969	1.02	1955	5.41	1963	0.0	0.0		0.0		83	86	58	60	7.5	E	65	W	1953	71	5.3	10	12	9	9	0	9	1	7	0	0	0	
A	85.7	61.4	73.6	97	1963	44	1963	9	3.53	9.31	1965	0.52	1947	4.60	1951	0.0	0.0		0.0		85	89	57	61	7.1	E	61	SW	1931	70	5.2	11	10	10	8	0	7	2	5	0	0	0	
S	78.1	52.5	65.3	98	1960	32	1967+	99	3.25	14.18	1970	0.49	1956	6.29	1961	T	0.1	1942	0.1	1942	84	88	59	68	8.1	S	66	NW	1945	65	5.1	12	8	10	9	0	5	2	1	0	*	0	
O	67.1	42.4	54.8	92	1963	19	1962	335	2.46	9.41	1941	0.01	1964	4.89	1954	0.2	6.6	1967	6.5	1967	77	83	54	63	9.1	S	56	SW	1949	62	5.1	12	8	11	7	*	2	2	*	0	5	0	
N	48.9	29.5	39.2	77	1961	3	1964	774	1.95	6.47	1934	0.29	1933	2.73	1961	1.5	9.1	1959	5.7	1959	77	81	62	70	10.8	WNW	60	W	1952	44	6.6	7	8	15	7	*	1	1	0	1	19	0	
D	35.4	18.3	26.9	69	1970	-22	1963	1181	1.65	4.81	1942	0.23	1929	3.38	1942	6.7	16.7	1951	8.4	1954	77	79	70	74	10.6	WNW	61	SW	1947	42	6.7	7	6	18	9	2	1	2	0	15	27	4	
YR	61.1	39.2	50.1	100	JUL. 1966	-26	JAN. 1963	6408	32.79	14.18	SEP. 1970	0.01	OCT. 1964	6.29	SEP. 1961	28.0	19.3	FEB. 1960	11.7	JAN. 1967	78	81	59	63	9.9	WNW	77	SW	JUN. 1947	58	6.1	101	102	162	111	9	47	20	21	52	138	17	

Means and extremes above are from existing and comparable exposures. Annual extremes have been exceeded at other sites in the locality as follows:
Highest temperature 106 in August 1936.

(a) Length of record, years, based on January data. Other months may be for more or fewer years if there have been breaks in the record.
(b) Climatological standard normals (1931-1960).
* Less than one half.
\+ Also on earlier dates, months, or years.
T Trace, an amount too small to measure.
Below zero temperatures are preceded by a minus sign.
The prevailing direction for wind in the Normals, Means, and Extremes table is from records through 1963.
‡ ≥ 70° at Alaskan stations.

Unless otherwise indicated, dimensional units used in this bulletin are: temperature in degrees F.; precipitation, including snowfall, in inches; wind movement in miles per hour; and relative humidity in percent. Heating degree day totals are the sums of negative departures of average daily temperatures from 65° F. Cooling degree day totals are the sums of positive departures of average daily temperatures from 65° F. Sleet was included in snowfall totals beginning with July 1948. The term "ice pellets" includes solid grains of ice (sleet) and particles consisting of snow pellets encased in a thin layer of ice. Heavy fog reduces visibility to 1/4 mile or less.

Sky cover is expressed in a range of 0 for no clouds or obscuring phenomena to 10 for complete sky cover. The number of clear days is based on average cloudiness 0-3, partly cloudy days 4-7, and cloudy days 8-10 tenths.

Solar radiation data are the averages of direct and diffuse radiation on a horizontal surface. The langley denotes one gram calorie per square centimeter.

& Figures instead of letters in a direction column indicate direction in tens of degrees from true North; i.e., 09 - East, 18 - South, 27 - West, 36 - North, and 00 - Calm. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations. If figures appear in the direction column under "Fastest mile" the corresponding speeds are fastest observed 1-minute values.

\# To 8 compass points only.

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1970

AVERAGE TEMPERATURE

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1931	29.7	34.8	34.6	50.2	56.6	74.6	73.2	72.1	71.2	57.4	47.4	35.6	53.1
1932	29.4	33.2	28.4	49.3	62.9	72.8	75.4	72.2	62.6	50.0	34.2	24.8	49.6
1933	34.8	23.7	36.4	48.6	61.6	77.6	76.0	71.0	70.2	50.0	37.7	29.0	51.4
1934	30.0	22.2	33.8	50.4	68.4	78.1	79.2	71.7	62.5	56.3	44.3	22.4	51.6
1935	22.8	29.2	41.0	47.2	54.8	66.4	79.1	74.2					
1936								80.1	68.6	53.6	37.6		
1937			34.4	48.9	63.0	70.9	76.4	77.4	65.8	51.6	36.4	24.6	
1938	22.4	34.4	44.8	52.4	61.4	69.0	77.0	76.3	67.5	58.6	40.4	27.0	52.6
1939	29.6	24.4	38.0	46.6	65.8	72.2	75.7	71.0	68.8	54.2	39.6	33.1	51.6
1940	10.0	26.2	32.3	47.8	57.8	72.6	76.9	72.1	64.3	57.0	36.0	31.5	48.7
1941	25.6	22.4	33.6	54.4	65.8	71.6	75.0	74.8	67.5	55.6	41.6	34.1	51.8
1942	22.5	24.6	39.5	55.3	60.8	71.0	75.0	71.7	63.0	53.2	39.7	21.0	49.8
1943	19.6	27.3	32.3	48.2	57.8	73.2	75.9	74.8	61.2	52.2	35.0	26.9	48.7
1944	30.1	27.4	32.6	46.4	66.2	73.6	73.8	73.4	66.2	53.4	42.5	20.2	50.5
1945	18.2	27.7	48.8	51.6	55.6	66.5	72.2	73.2	63.9	51.0	38.6	19.7	48.9
1946	25.6	29.5	48.0	53.5	57.8	70.2	74.8	69.2	64.8	57.8	40.8	31.4	52.0
1947	27.0	20.1	32.5	48.8	56.5	67.4	72.2	81.0	68.2	62.6	33.8	30.2	50.0
1948	17.5	24.4	35.6	55.2	57.8	69.0	75.1	73.6	67.6	51.1	41.3	29.0	49.8
1949	23.0	24.8	37.1	49.4	63.8	73.6	78.0	73.5	59.0	57.0	41.8	31.0	51.0
1950	25.9	24.7	32.9	43.6	62.0	69.6	71.1	68.5	64.1	59.2	33.8	19.1	47.9
1951	20.6	25.6	31.8	47.3	63.3	67.2	72.9	71.5	61.8	54.6	32.6	23.4	47.7
1952	25.1	31.4	33.5	52.1	60.6	75.7	76.4	71.1	64.7	46.6	41.4	30.5	50.7
1953	25.3	30.0	37.3	45.9	60.5	74.3	75.9	74.3	65.4	57.9	42.8	30.0	51.6
1954	23.3	36.3	34.0	53.7	56.1	74.6	76.2	72.0	67.5	53.1	40.7	29.1	51.4
1955	22.0	25.3	36.0	57.0	63.8	67.8	80.5	76.8	66.4	53.6	34.2	24.2	50.6
1956	22.7	26.9	36.1	47.1	62.6	74.0	73.2	73.3	63.4	59.0	38.4	28.9	50.5
1957	16.6	32.5	37.0	50.4	59.6	70.4	76.7	73.2	61.9	49.8	38.1	32.8	49.9
1958	22.2	16.7	35.7	50.5	62.2	66.3	71.3	73.5	64.4	56.0	42.0	22.2	48.6
1959	15.7	25.7	36.9	49.4	65.3	72.0	73.2	77.2	66.3	49.9	31.4	34.7	49.8
#1960	25.7	22.3	19.9	53.4	58.9	68.5	72.8	73.8	68.6	53.8	41.5	23.7	48.6
1961	21.1	30.7	39.3	44.3	58.1	71.9	74.2	73.9	66.1	55.4	40.8	23.0	49.9
1962	16.2	23.7	32.6	49.3	67.9	70.6	71.6	72.9	61.7	55.2	39.0	23.2	48.7
1963	9.7	17.9	41.1	52.9	60.0	73.5	74.8	70.8	64.9	64.4	43.1	13.8	48.9
1964	28.4	27.0	34.4	51.5	66.3	72.3	76.6	70.8	65.6	50.7	44.2	24.8	51.1
1965	21.4	25.7	26.9	49.2	65.9	69.6	74.9	71.1	63.5	53.6	40.7	34.5	49.8
1966	14.3	24.8	39.2	47.0	56.3	70.5	77.9	70.6	62.9	52.5	41.7	28.1	48.8
1967	26.0	18.7	39.0	51.6	56.4	70.9	71.4	67.7	62.1	52.1	36.1	28.5	48.4
1968	21.0	22.7	41.9	51.3	57.2	72.1	73.1	73.5	63.1	53.2	37.3	24.5	49.3
1969	17.9	27.9	32.2	51.6	61.7	67.1	75.0	73.7	64.9	51.7	37.9	24.3	48.8
1970	13.1	24.7	33.6	51.8	64.9	70.7	75.7	72.9	65.2	53.9	39.2	28.9	49.5
RECORD MEAN	22.2	26.5	35.9	50.2	61.1	71.2	75.2	73.2	65.1	54.2	39.0	26.9	50.1
MAX	30.7	35.2	45.1	60.9	72.1	82.1	86.3	84.3	76.7	65.7	48.2	34.9	60.2
MIN	13.6	17.8	26.6	39.4	50.1	60.3	64.1	62.0	53.5	42.6	29.8	18.9	39.9

TOTAL DEGREE DAYS

MOLINE, ILLINOIS

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1942-43							1407	1056	1016	506	267	30	
1943-44	1	3	164	400	898	1180	1082	1092	1007	555	137	26	6545
1944-45	2	8	77	362	674	1391	1452	1044	505	408	312	81	6316
1945-46	13	9	139	437	795	1402	1223	993	526	357	233	59	6186
1946-47	0	19	99	240	730	1043	1176	1253	1011	487	276	59	6393
1947-48	10	0	117	148	932	1078	1471	1177	914	328	232	17	6424
1948-49	0	4	69	431	709	1114	1302	1126	868	471	127	6	6227
1949-50	0	3	204	289	695	1055	1204	1126	989	636	129	34	6364
1950-51	4	24	82	222	930	1416	1372	1096	1020	543	132	37	6878
1951-52	3	4	130	350	965	1283	1232	967	970	399	195	6	6504
1952-53	0	9	97	565	702	1062	1224	974	850	570	204	2	6259
1953-54	0	1	95	266	660	1078	1284	796	953	355	291	39	5818
1954-55	0	2	58	395	722	1108	1329	1107	891	236	100	44	5992
1955-56	0	0	71	356	914	1259	1305	1096	890	537	155	26	6609
1956-57	0	13	109	189	790	1109	1492	902	861	448	191	23	6127
1957-58	0	2	136	467	800	989	1319	1345	898	435	125	41	6557
1958-59	4	21	93	289	685	1319	1523	1096	861	462	114	8	6475
#1959-60	4	1	100	462	1002	932	1212	1229	1392	376	203	13	6926
1960-61	2	1	55	348	700	1277	1355	954	789	614	242	12	6349
1961-62	1	0	121	309	722	1297	1510	1150	999	481	78	22	6690
1962-63	8	1	149	342	774	1292	1717	1315	734	370	186	15	6903
1963-64	0	16	83	108	653	1585	1129	1097	942	405	71	20	6109
1964-65	3	24	100	437	624	1241	1344	1096	1174	471	86	3	6603
1965-66	0	21	115	363	722	939	1568	1119	794	533	287	31	6492
1966-67	0	6	116	386	695	1137	1202	1289	802	404	305	10	6352
1967-68	21	33	136	424	860	1127	1354	1221	711	409	248	18	6562
1968-69	8	15	96	404	826	1247	1458	1032	1010	398	172	57	6723
1969-70	0	0	80	445	805	1253	1607	1120	967	419	118	21	6835
1970-71	0	2	92	350	764	1111							

TOTAL PRECIPITATION

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1931	0.56	0.19	1.98	2.43	3.17	2.61	1.62	1.42	4.07	3.01	4.30	2.28	27.64
1932	0.95	0.54	1.81	1.32	4.53	4.80	3.71	7.12	0.86	3.13	1.11	1.98	31.86
1933	2.10	0.17	3.47	1.81	7.60	5.19	1.86	1.87	2.37	1.70	0.29	1.36	29.79
1934	0.75	0.66	1.15	0.96	0.98	4.21	3.98	4.51	8.88	1.34	6.47	1.05	34.94
1935	1.49	1.26	2.83	2.04	6.16	5.74	1.73	2.95					
1936									10.35	1.47	1.53		
1937			1.13	3.69	4.15	2.35	3.56	1.34	1.22	2.11	0.79	0.91	
1938	2.54	1.68	2.94	3.24	6.78	4.63	5.81	3.49	6.84	1.52	2.45	0.88	42.80
1939	1.67	1.70	2.68	3.56	2.28	3.99	2.45	5.59	0.94	2.96	0.94	0.30	29.06
1940	1.26	0.53	1.57	3.01	1.37	1.19	2.34	4.88	1.54	2.02	1.57	1.57	22.85
1941	2.86	0.53	1.38	4.49	3.49	6.46	1.67	1.66	5.45	9.41	1.25	1.43	40.08
1942	0.78	1.08	1.39	0.92	4.06	5.73	4.18	2.80	2.95	0.92	2.99	4.81	32.61
1943	1.36	1.84	1.49	5.61	6.38	4.55	2.10	4.31	1.23	3.24	1.77	0.41	34.29
1944	0.60	1.99	5.27	5.55	4.60	6.19	2.40	2.88	1.60	1.06	2.98	1.54	36.66
1945	0.44	0.90	3.36	3.88	5.07	2.52	1.39	3.86	4.74	1.09	1.71	1.69	30.65
1946	2.53	0.28	4.64	0.68	4.10	6.42	1.47	3.91	3.47	1.65	2.49	1.43	33.07
1947	2.08	0.23	2.10	7.36	3.70	5.99	4.08	0.52	5.13	0.88	1.92	1.64	35.63
1948	0.84	2.35	3.46	1.67	2.11	2.91	8.27	2.83	3.66	1.81	2.23	2.21	34.35
1949	3.28	1.78	2.76	1.10	1.82	5.45	3.40	7.12	1.96	2.27	0.71	2.91	34.56
1950	3.56	1.76	1.09	5.87	3.01	5.11	4.41	1.87	3.85	0.61	0.73	1.01	32.88
1951	1.05	2.56	5.06	3.60	5.90	6.65	5.60	8.00	3.47	3.75	1.68	1.28	48.60
1952	1.57	0.78	3.88	1.17	2.22	7.13	2.66	3.50	0.77	0.04	2.99	1.93	28.64
1953	1.04	2.72	2.68	1.73	3.18	3.43	4.88	1.05	1.79	1.00	1.07	1.90	26.47
1954	0.34	1.69	3.13	4.58	3.58	5.10	1.98	6.67	1.59	7.43	0.75	2.02	38.86
1955	2.03	1.88	1.20	5.33	2.30	3.65	1.02	2.44	2.40	2.70	0.60	0.54	26.09
1956	0.31	1.39	0.54	2.15	2.27	1.55	4.09	3.34	0.49	0.40	2.43	1.24	20.20
1957	1.33	1.57	2.90	3.49	4.11	2.52	4.47	3.17	1.16	2.00	2.38	3.82	32.92
1958	1.26	0.49	0.31	2.53	3.96	3.77	4.62	1.09	3.00	1.75	1.17	0.50	24.45
1959	1.41	1.77	3.06	4.75	5.31	3.62	4.48	3.90	4.29	5.59	1.50	2.42	42.10
1960	3.43	2.78	1.28	4.89	3.98	5.40	3.40	3.97	3.42	4.91	1.11	0.88	39.45
1961	0.31	1.20	4.48	2.19	1.98	3.69	7.63	2.37	11.00	4.53	4.94	1.58	45.90
1962	2.08	1.84	2.42	2.44	6.10	1.48	6.73	1.95	2.90	4.15	1.21	0.55	33.85
1963	0.91	0.37	3.29	4.24	2.36	1.02	8.78	4.02	2.38	0.63	1.84	0.94	30.78
1964	1.59	0.73	4.02	6.37	2.68	3.89	5.31	2.41	3.99	0.01	3.40	1.27	35.67
1965	4.08	0.97	2.52	7.92	4.04	2.07	4.78	9.31	8.27	0.88	1.93	2.82	49.39
1966	2.01	0.89	0.85	3.96	6.39	4.25	7.74	0.77	2.80	4.38	1.12	2.52	37.68
1967	2.00	1.11	1.68	4.91	1.70	8.15	4.15	3.62	4.99	6.23	2.26	1.56	42.36
1968	0.80	0.32	1.96	3.57	2.59	3.70	3.91	2.16	5.70	1.09	3.29	2.76	31.85
1969	3.28	0.21	2.25	3.11	3.40	6.97	11.39	2.00	2.50	4.63	0.53	1.52	41.79
1970	0.54	0.57	2.62	4.66	11.07	3.25	6.27	3.61	14.18	1.75	1.25	1.95	51.72
RECORD MEAN	1.59	1.25	2.43	3.59	3.85	4.31	4.20	3.44	3.87	2.67	2.04	1.58	34.82

TOTAL SNOWFALL

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1931-32	0.0	0.0	0.0	0.0	0.2	7.6	2.0	5.5	8.2	0.0	0.0	0.0	23.5
1932-33	0.0	0.0	0.0	0.0	1.1	3.5	2.8	2.1	4.1	0.8	0.0	0.0	14.4
1933-34	0.0	0.0	0.0	T	0.3	3.5	2.6	6.4	3.6	T	0.0	0.0	16.4
1934-35	0.0	0.0	0.0	0.0	T	9.3	1.9	2.8	8.9	0.2	0.3	0.0	23.4
1935-36	0.0	0.0	0.0	0.0								0.0	
1936-37	0.0	0.0	0.0	T	T				5.0	T	0.0	0.0	
1937-38	0.0	0.0	0.0	0.0	4.0	5.7	3.7	1.7	0.6	0.8	0.0	0.0	16.5
1938-39	0.0	0.0	0.0	0.1	0.4	3.1	11.8	6.1	2.5	T	0.0	0.0	24.0
1939-40	0.0	0.0	0.0	T	0.0	T	12.6	3.4	3.1	0.0	0.0	0.0	19.1
1940-41	0.0	0.0	0.0	0.0	2.3	1.4	14.5	3.9	11.5	0.0	0.0	0.0	33.6
1941-42	0.0	0.0	0.0	0.0	1.3	4.4	4.8	6.1	0.8	0.0	0.0	0.0	17.4
1942-43	0.0	0.0	0.1	T	1.6	7.6	11.1	2.5	5.3	T	0.0	0.0	28.2
1943-44	0.0	0.0	0.0	0.0	T	0.4	T	12.6	4.3	T	T	0.0	17.3
1944-45	0.0	0.0	0.0	0.0	0.3	13.9	5.8	4.3	0.7	T	T	0.0	25.0
1945-46	0.0	0.0	0.0	0.0	1.0	11.4	2.5	4.4	2.8	T	0.0	0.0	22.1
1946-47	0.0	0.0	0.0	T	0.0	5.3	8.5	4.3	7.2	T	0.0	0.0	25.3
1947-48	0.0	0.0	0.0	0.0	7.7	1.8	3.8	3.0	8.0	0.0	0.0	0.0	24.3
1948-49	0.0	0.0	0.0	0.0	T	6.2	5.3	2.5	0.9	1.1	0.0	0.0	16.0
1949-50	0.0	0.0	0.0	0.0	0.5	2.3	1.7	7.9	2.5	0.4	0.0	0.0	15.3
1950-51	0.0	0.0	0.0	0.0	2.1	7.3	7.1	4.9	17.0	1.4	0.0	0.0	39.8
1951-52	0.0	0.0	0.0	T	3.4	16.7	4.7	5.9	15.2	T	0.0	0.0	45.9
1952-53	0.0	0.0	0.0	0.0	T	2.5	12.1	6.2	7.1	0.4	0.0	0.0	28.3
1953-54	0.0	0.0	0.0	0.0	1.4	7.8	1.4	4.9	2.2	0.0	T	0.0	17.7
1954-55	0.0	0.0	0.0	T	3.7	16.2	11.2	6.1	8.8	0.0	0.0	0.0	46.0
1955-56	0.0	0.0	0.0	T	2.0	2.9	2.2	7.5	0.7	0.3	0.0	0.0	15.6
1956-57	0.0	0.0	0.0	0.0	2.1	6.5	11.8	0.7	6.9	6.5	0.0	0.0	34.5
1957-58	0.0	0.0	0.0	0.0	0.3	6.4	14.0	1.7	2.0	T	0.0	0.0	24.4
1958-59	0.0	0.0	0.0	0.0	0.9	8.1	15.1	3.6	13.9	1.7	0.0	0.0	43.3
1959-60	0.0	0.0	0.0	T	9.1	9.9	8.5	19.3	14.7	T	T	0.0	61.5
1960-61	0.0	0.0	0.0	0.0	T	5.5	3.4	2.5	2.4	2.5	0.0	0.0	16.3
1961-62	0.0	0.0	0.0	0.0	T	13.6	11.2	15.8	7.1	0.2	0.0	0.0	47.9
1962-63	0.0	0.0	0.0	0.2	T	3.1	14.7	5.8	7.3	0.0	0.0	0.0	31.1
1963-64	0.0	0.0	0.0	0.0	T	9.7	5.3	5.5	13.9	T	0.0	0.0	34.4
1964-65	0.0	0.0	0.0	0.0	2.1	11.7	10.2	7.4	16.2	0.0	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.3	5.7	6.0	0.8	0.7	0.1	T	0.0	13.6
1966-67	0.0	0.0	0.0	0.0	T	7.2	14.4	13.2	2.2	1.1	0.0	0.0	38.1
1967-68	0.0	0.0	0.0	6.6	0.3	3.2	8.6	2.8	1.1	T	0.0	0.0	22.6
1968-69	0.0	0.0	0.0	-	5.9	5.4	6.2	0.9	5.6	0.0	T	0.0	24.0
1969-70	0.0	0.0	0.0	0.0	1.5	15.4	7.2	6.1	12.7	8.3	0.0	0.0	51.2
1970-71	0.0	0.0	0.0	0.0	0.2	2.2							

Record mean values above (not adjusted for instrument location changes listed in the Station Location table) are means for the period beginning in 1930 for temperature and 1927 for precipitation.

# Indicates a break in the data sequence during the year, or season, due to a station move or relocation of instruments. See Station Location table.

STATION LOCATION

MOLINE, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Elevation above Ground: Extreme thermometers	Elevation above Ground: Psychrometer	Elevation above Ground: Telepsychrometer	Elevation above Ground: Tipping bucket rain gage	Elevation above Ground: Weighing rain gage	Elevation above Ground: 8" rain gage	Elevation above Ground: Hygrothermometer	Elevation above Sea level: Pyranometer	Remarks
NE Corner, Moline AP 4.5 mi. S of Moline P.O.	10- 1-26	12-27-39		41° 27'	90° 31'	589	53	3	3				3			
Administration Building Quad City Airport	12-27-39	4- 3-61	1200 ft. W	41° 27'	90° 31'	g582	a25	b36	c36	d5		e5	15	f4		a - 54 ft. for autographic record and 62 ft. for direct reading until moved to field 11-13-58. b - 5 ft. to 5-31-55 and 6-7-56 to 4-16-58. c - 5 ft. to 12-1-54 and 6-7-56 to 4-16-58. d - Added 6-7-56, removed 3-1-60. e - 4 ft. to 4-16-58. f - Commissioned 3-1-60. g - 589 ft. to 3-1-60.
Terminal Building Quad City Airport	4- 4-61	Present	200 ft. SE	41° 27'	90° 31'	582	25	17	17			h16	15	4		h - 5 ft. to 7-22-63.

Requests for additional information should be directed to the National Weather Service Office for which this summary was issued.

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LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA
1969
MOLINE, ILLINOIS

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1969
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NARRATIVE CLIMATOLOGICAL SUMMARY

This area has a temperate continental climate, with a wide temperature range throughout the year. There are some intensely hot, usually humid, periods in summer and severely cold periods in winter. Maxima of 90° or higher have occurred as frequently as on 53 days (1936), but in 1882 there were none. Zero or lower readings have occurred during every winter of record.

Freezing temperatures have occurred as late in spring as May 22 and as early in autumn as September 18. Precipitation usually is well distributed throughout the year. Normally the greatest amounts fall during the 180-day average crop growing season (April 19-October 15, inclusive). Substantial weather changes frequently occur at 3-or 4-day intervals, as a direct result of proximity to some of the most important storm tracks.

The locality is in the heart of the Corn Belt. Agricultural crops include many important staple products in addition to corn. Cattle, hogs, horses, and poultry produced in Iowa and Illinois rank high in the nation. Close to the Mississippi River there is large scale truck gardening and considerable dairying. Field production of grains and livestock attains greater development farther away from the large streams, where the countryside is rolling prairie. Damaging drouths are not common. This, together with the variety of agricultural products, has led to designating the section as the "Bread Basket" or the "Garden Spot" of America.

The climate is favorable for many industries as evidenced by the large number and variety of manufacturing and other enterprises which have located and developed in the community. Among these are some of the world's largest producers of agricultural machinery.

Records began in Davenport, Iowa, in May 1871, and have been continuous to date. At the Quad-City Airport, Moline, Illinois, records began in October 1926, but are not complete in the years 1935. 1936, and 1937. For a summary of data from Lock & Dam No. 15, Davenport, Iowa, please refer to IOWA CLIMATOLOGICAL DATA.

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AT URBANA-CHAMPAIGN

METEOROLOGICAL DATA FOR THE CURRENT YEAR

Station: MOLINE, ILLINOIS QUAD CITY AIRPORT Standard time used: CENTRAL Latitude: 41° 27' N Longitude: 90° 31' W Elevation (ground): 582 feet Year: 1969

Month	Temperature: Averages: Daily maximum	Temperature: Averages: Daily minimum	Temperature: Averages: Monthly	Temperature: Extremes: Highest	Temperature: Extremes: Date	Temperature: Extremes: Lowest	Temperature: Extremes: Date	Degree days (Base 65°): Heating	Degree days (Base 65°): Cooling	Precipitation: Total	Precipitation: Greatest in 24 hrs.	Precipitation: Date	Snow, Ice pellets: Total	Snow, Ice pellets: Greatest in 24 hrs.	Snow, Ice pellets: Date	Relative humidity (Local time): Hour 00	Relative humidity: Hour 06	Relative humidity: Hour 12	Relative humidity: Hour 18	Wind &: Resultant: Direction	Wind &: Resultant: Speed	Wind &: Average speed	Wind &: Fastest mile: Speed	Wind &: Fastest mile: Direction #	Wind &: Fastest mile: Date	Percent of possible sunshine	Average sky cover sunrise to sunset	Number of days: Sunrise to sunset: Clear	Number of days: Sunrise to sunset: Partly cloudy	Number of days: Sunrise to sunset: Cloudy	Number of days: Precipitation .01 inch or more	Number of days: Snow, Ice pellets 1.0 inch or more	Number of days: Thunderstorms	Number of days: Heavy fog	Number of days: Temperatures: Maximum: 90° and above ‡	Number of days: Temperatures: Maximum: 32° and below	Number of days: Temperatures: Minimum: 32° and below	Number of days: Temperatures: Minimum: 0° and below	Average daily solar radiation - langleys
JAN	24.5	11.2	17.9	43	23	-10	4+	1458	0	3.28	1.05	15-16	6.2	3.9	5-6	77	77	73	77	25	3.0	12.4	40	W	8	35	7.5	7	1	23	12	2	0	5	0	20	30	8	
FEB	34.2	21.6	27.9	42	28+	4	3	1032	0	0.21	0.15	22	0.9	0.5	22	81	86	69	71	03	2.3	10.4	26	NW	11	51	6.9	6	5	17	3	0	0	0	0	9	27	0	
MAR	42.9	21.5	32.2	71	18	9	12	1010	0	2.25	1.48	23-24	5.6	3.5	25-26	72	77	51	54	29	5.1	11.3	33	NW	20	65	5.6	9	11	11	9	1	0	0	0	5	28	0	
APR	62.8	40.3	51.6	75	26	27	6	398	1	3.11	1.16	4	0.0	0.0		73	79	57	54	17	0.4	11.5	37	NW	21	54	6.3	9	5	16	8	0	6	0	0	0	4	0	
MAY	72.8	50.6	61.7	91	28	37	12+	172	77	3.40	0.64	17-18	T	T	10	75	82	56	55	19	1.9	9.9	33	W	9	59	6.6	5	12	14	14	0	4	4	1	0	0	0	
JUN	77.6	56.6	67.1	92	29	43	9+	57	130	6.97	1.66	7-8	0.0	0.0		79	84	60	60	22	2.0	11.0	38	W	25	57	6.7	7	6	17	16	0	13	1	2	0	0	0	
JUL	83.5	66.5	75.0	94	16+	60	1	0	320	11.39	3.85	17	0.0	0.0		90	92	68	70	18	0.5	7.9	43	SW	3	58	6.1	5	14	12	10	0	12	1	6	0	0	0	
AUG	84.8	62.6	73.7	91	31+	52	23	0	276	2.00	0.62	7	0.0	0.0		84	87	53	58	19	2.4	6.6	28	SE	9	76	4.1	16	10	5	7	0	7	6	4	0	0	0	
SEP	75.6	54.2	64.9	84	13+	41	28+	80	86	2.50	0.96	6	0.0	0.0		81	85	55	62	10	0.9	8.6	30	W	6	59	5.8	12	5	13	11	0	5	2	0	0	0	0	
OCT	61.6	41.8	51.7	88	4	22	28	445	41	4.63	2.05	10-11	0.0	0.0		75	81	55	63	22	2.4	10.6	36	SW	9	50	6.0	10	6	15	11	0	4	0	0	0	7	0	
NOV	48.3	27.5	37.9	67	6	15	28+	805	0	0.53	0.40	3	1.5	1.5	14	78	82	60	69	26	4.2	9.8	29	NW	19	48	6.5	7	6	17	3	1	0	3	0	2	23	0	
DEC	31.5	17.1	24.3	51	2	-5	27	1253	0	1.52	0.59	6-7	15.4	5.8	6-7	80	83	73	77	28	2.8	10.3	29	NW	14+	42	7.8	2	9	20	13	5	0	0	0	19	30	1	
YEAR	58.3	39.3	48.8	94	JUL. 16+	-10	JAN. 4+	6710	931	41.79	3.85	JUL. 17	29.6	5.8	DEC. 6-7	79	83	61	64	25	1.4	10.0	43	SW	JUL. 3	56	6.3	95	90	180	117	9	51	22	13	55	149	9	

NORMALS, MEANS, AND EXTREMES

Month	Temperature: Normal: Daily maximum	Temperature: Normal: Daily minimum	Temperature: Normal: Monthly	Temperature: Extremes: Record highest	Temperature: Extremes: Year	Temperature: Extremes: Record lowest	Temperature: Extremes: Year	Normal heating degree days (Base 65°)	Precipitation: Normal total	Precipitation: Maximum monthly	Precipitation: Year	Precipitation: Minimum monthly	Precipitation: Year	Precipitation: Maximum in 24 hrs.	Precipitation: Year	Snow, Ice pellets: Mean total	Snow, Ice pellets: Maximum monthly	Snow, Ice pellets: Year	Snow, Ice pellets: Maximum in 24 hrs.	Snow, Ice pellets: Year	Relative humidity (Local time): Hour 00	Relative humidity: Hour 06	Relative humidity: Hour 12	Relative humidity: Hour 18	Wind &: Mean speed	Wind &: Prevailing direction	Wind &: Fastest mile: Speed	Wind &: Fastest mile: Direction #	Wind &: Fastest mile: Year	Pct. of possible sunshine	Mean sky cover sunrise to sunset	Mean number of days: Sunrise to sunset: Clear	Mean number of days: Sunrise to sunset: Partly cloudy	Mean number of days: Sunrise to sunset: Cloudy	Mean number of days: Precipitation .01 inch or more	Mean number of days: Snow, Ice pellets 1.0 inch or more	Mean number of days: Thunderstorms	Mean number of days: Heavy fog	Mean number of days: Temperatures: Max.: 90° and above ‡	Mean number of days: Temperatures: Max.: 32° and below	Mean number of days: Temperatures: Min.: 32° and below	Mean number of days: Temperatures: Min.: 0° and below	Average daily solar radiation - langleys
(s)	(b)	(b)	(b)	10		10		(b)	(b)	40		40		40		37	38		36		9	9	9	9	26	12	41	41		26	27	36	36	36	37	37	36	35	9	9	9	9	
J	31.6	13.6	22.6	63	1967	-26	1963	1314	1.61	4.08	1965	0.31	1961+	2.07	1960	7.2	15.1	1959	11.7	1967	72	74	66	69	10.6	WNW	56	SW	1946	47	6.6	8	7	16	9	2	*	3	0	19	29	9	
F	34.8	16.6	25.7	64	1965	-16	1963	1100	1.35	2.78	1960	0.17	1933	1.90	1948	5.3	19.3	1960	8.5	1960	72	75	63	65	10.9	WNW	58	NW	1948	49	6.4	7	6	15	8	2	*	2	0	13	27	3	
M	45.1	25.6	35.4	80	1968	-19	1960	918	2.39	5.27	1944	0.31	1958	2.38	1944	6.2	17.0	1951	8.2	1952	74	77	60	62	12.0	WNW	66	SW	1954+	51	6.8	7	8	16	11	2	2	2	0	4	22	*	
A	61.7	38.3	50.0	87	1962	21	1962+	450	3.17	7.92	1965	0.68	1946	2.80	1959	0.5	6.5	1957	5.6	1957	75	81	57	57	12.2	NW	73	SW	1947	53	6.6	6	9	15	11	*	5	1	0	0	7	0	
M	73.1	49.2	61.2	94	1967	26	1966	189	3.80	7.60	1933	0.55	1928	2.60	1954	T	0.3	1935	0.3	1935	76	81	53	53	10.5	E	68	SW	1955	58	6.4	7	9	15	12	0	7	1	1	0	1	0	
J	83.2	59.5	71.4	98	1963	41	1966	39	4.37	8.15	1967	1.02	1963	5.02	1967	0.0	0.0		0.0		79	83	54	55	9.1	S	77	SW	1947	64	6.2	7	10	13	10	0	8	1	6	0	0	0	
J	88.0	63.2	75.6	100	1966	47	1968	0	3.26	11.39	1969	1.02	1955	5.41	1963	0.0	0.0		0.0		83	86	59	61	7.4	E	65	W	1953	71	5.4	10	12	9	9	0	9	1	6	0	0	0	
A	85.7	61.4	73.6	97	1963	44	1963	9	3.53	9.31	1965	0.52	1947	4.60	1951	0.0	0.0		0.0		85	89	57	60	7.1	E	61	SW	1931	71	5.2	11	10	10	8	0	7	3	5	0	0	0	
S	78.1	52.5	65.3	98	1960	32	1967+	99	3.25	11.00	1961	0.49	1956	6.29	1961	T	0.1	1942	0.1	1942	84	88	58	68	8.1	S	66	NW	1945	66	5.1	12	8	10	9	0	4	2	1	0	*	0	
O	67.1	42.4	54.8	92	1963	19	1962	335	2.46	9.41	1941	0.01	1964	4.89	1954	0.2	6.6	1967	6.5	1967	76	82	53	62	9.1	S	56	SW	1949	62	5.0	12	8	11	7	*	2	2	*	0	6	0	
N	48.9	29.5	39.2	77	1961	3	1964	774	1.95	6.47	1934	0.29	1933	2.73	1961	1.5	9.1	1959	5.7	1959	77	82	62	70	10.8	WNW	60	W	1952	44	6.6	8	7	15	7	*	1	1	0	1	19	0	
D	35.4	18.3	26.9	64	1962+	-22	1963	1181	1.65	4.81	1942	0.23	1929	3.38	1942	6.8	16.7	1951	8.4	1954	77	79	70	74	10.6	WNW	61	SW	1947	42	6.8	7	6	18	9	2	1	2	0	15	27	4	
YR	61.1	39.2	50.1	100	JUL. 1966	-26	JAN. 1963	6408	32.79	11.39	JUL. 1969	0.01	OCT. 1964	6.29	SEP. 1961	27.7	19.3	FEB. 1960	11.7	JAN. 1967	78	81	59	63	9.9	WNW	77	SW	JUN. 1947	58	6.1	102	100	163	110	9	47	20	21	52	138	17	

Means and extremes above are from existing and comparable exposures. Annual extremes have been exceeded at other sites in the locality as follows:
Highest temperature 106 in August 1936.

(s) Length of record, years, based on January data. Other months may be for more or fewer years if there have been breaks in the record.
(b) Climatological standard normals (1931-1960).
* Less than one half.
\+ Also on earlier dates, months, or years.
T Trace, an amount too small to measure.
Below zero temperatures are preceded by a minus sign.
The prevailing direction for wind in the Normals, Means, and Extremes table is from records through 1963.
‡ ≧ 70° at Alaskan stations.

Unless otherwise indicated, dimensional units used in this bulletin are: temperature in degrees F.; precipitation, including snowfall, in inches; wind movement in miles per hour; and relative humidity in percent. Heating degree day totals are the sums of negative departures of average daily temperatures from 65° F. Cooling degree day totals are the sums of positive departures of average daily temperatures from 65° F. Sleet was included in snowfall totals beginning with July 1948. The term "Ice pellets" includes solid grains of ice (sleet) and particles consisting of snow pellets encased in a thin layer of ice. Heavy fog reduces visibility to 1/4 mile or less.

Sky cover is expressed in a range of 0 for no clouds or obscuring phenomena to 10 for complete sky cover. The number of clear days is based on average cloudiness 0-3, partly cloudy days 4-7, and cloudy days 8-10 tenths.

Solar radiation data are the averages of direct and diffuse radiation on a horizontal surface. The langley denotes one gram calorie per square centimeter.

& Figures instead of letters in a direction column indicate direction in tens of degrees from true North; i.e., 09 - East, 18 - South, 27 - West, 36 - North, and 00 - Calm. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations. If figures appear in the direction column under "Fastest mile" the corresponding speeds are fastest observed 1-minute values.

To 8 compass points only.

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AVERAGE TEMPERATURE

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1931	29.7	34.8	34.6	50.2	56.6	74.6	73.2	72.1	71.2	57.4	47.4	35.6	53.1
1932	29.4	33.2	28.4	49.3	62.9	72.8	75.4	72.2	62.6	50.0	34.2	24.8	49.6
1933	34.8	23.7	36.4	48.6	61.6	77.6	76.0	71.0	70.2	50.0	37.7	29.0	51.4
1934	30.0	22.2	33.8	50.4	68.4	78.1	79.2	71.7	62.5	56.3	44.3	22.4	51.6
1935	22.8	29.2	41.0	47.2	54.8	66.4	79.1	74.2					
1936								80.1	68.6	53.6	37.6		
1937			34.4	48.9	63.0	70.9	76.4	77.4	65.8	51.6	36.4	24.6	
1938	22.4	34.4	44.8	52.4	61.4	69.0	77.0	76.3	67.5	58.6	40.4	27.0	52.6
1939	29.6	24.4	38.0	46.6	65.8	72.2	75.7	71.0	68.8	54.2	39.6	33.1	51.6
1940	10.0	26.2	32.3	47.8	57.8	72.6	76.9	72.1	64.3	57.0	36.0	31.5	48.7
1941	25.6	22.4	33.6	54.4	65.8	71.6	75.0	74.8	67.5	55.6	41.6	34.1	51.8
1942	22.5	24.6	39.5	55.3	60.8	71.0	75.0	71.7	63.0	53.2	39.7	21.0	49.8
1943	19.6	27.3	32.3	48.2	57.8	73.2	75.9	74.8	61.2	52.2	35.0	26.9	48.7
1944	30.1	27.4	32.6	46.4	66.2	73.6	73.8	73.4	66.2	53.4	42.5	20.2	50.5
1945	18.2	27.7	48.8	51.6	55.6	66.5	72.2	73.2	63.9	51.0	38.6	19.7	48.9
1946	25.6	29.5	48.0	53.5	57.8	70.2	74.8	69.2	64.8	57.8	40.8	31.4	52.0
1947	27.0	20.1	32.5	48.8	56.5	67.4	72.2	81.0	68.2	62.6	33.8	30.2	50.0
1948	17.5	24.4	35.6	55.2	57.8	69.0	75.1	73.6	67.6	51.1	41.3	29.0	49.8
1949	23.0	24.8	37.1	49.4	63.8	73.6	78.0	73.5	59.0	57.0	41.8	31.0	51.0
1950	25.9	24.7	32.9	43.6	62.0	69.6	71.1	68.5	64.1	59.2	33.8	19.1	47.9
1951	20.6	25.6	31.8	47.3	63.3	67.2	72.9	71.5	61.8	54.6	32.6	23.4	47.7
1952	25.1	31.4	33.5	52.1	60.6	75.7	76.4	71.1	64.7	46.6	41.4	30.5	50.7
1953	25.3	30.0	37.3	45.9	60.5	74.3	75.9	74.3	65.4	57.9	42.8	30.0	51.6
1954	23.3	36.3	34.0	53.7	56.1	74.6	76.2	72.0	67.5	53.1	40.7	29.1	51.4
1955	22.0	25.3	36.0	57.0	63.8	67.8	80.5	76.8	66.4	53.6	34.2	24.2	50.6
1956	22.7	26.9	36.1	47.1	62.6	74.0	73.2	73.3	63.4	59.0	38.4	28.9	50.5
1957	16.6	32.5	37.0	50.4	59.6	70.4	76.7	73.2	61.9	49.8	38.1	32.8	49.9
1958	22.2	16.7	35.7	50.5	62.2	66.3	71.3	73.5	64.4	56.0	42.0	22.2	48.6
1959	15.7	25.7	36.9	49.4	65.3	72.0	73.2	77.2	66.3	49.9	31.4	34.7	49.8
#1960	25.7	22.3	19.9	53.4	58.9	68.5	72.8	73.8	68.6	53.8	41.5	23.7	48.6
1961	21.1	30.7	39.3	44.3	58.1	71.9	74.2	73.9	66.1	55.4	40.8	23.0	49.9
1962	16.2	23.7	32.6	49.3	67.9	70.6	71.6	72.9	61.7	55.2	39.0	23.2	48.7
1963	9.7	17.9	41.1	52.9	60.0	73.5	74.8	70.8	64.9	64.4	43.1	13.8	48.9
1964	28.4	27.0	34.4	51.5	66.3	72.3	76.6	70.8	65.6	50.7	44.2	24.8	51.1
1965	21.4	25.7	26.9	49.2	65.9	69.6	74.9	71.1	63.5	53.6	40.7	34.5	49.8
1966	14.3	24.8	39.2	47.0	56.3	70.5	77.9	70.6	62.9	52.5	41.7	28.1	48.8
1967	26.0	18.7	39.0	51.6	56.4	70.9	71.4	67.7	62.1	52.1	36.1	28.5	48.4
1968	21.0	22.7	41.9	51.3	57.2	72.1	73.1	73.5	63.1	53.2	37.3	24.5	49.3
1969	17.9	27.9	32.2	51.6	61.7	67.1	75.0	73.7	64.9	51.7	37.9	24.3	48.8
RECORD													
MEAN	22.4	26.6	35.9	50.2	61.1	71.2	75.2	73.2	65.1	54.2	39.1	26.9	50.1
MAX	30.9	35.2	45.1	60.9	72.1	82.1	86.3	84.3	76.7	65.8	48.3	34.9	60.2
MIN	13.8	17.9	26.6	39.4	50.0	60.3	64.1	62.0	53.4	42.6	29.8	18.8	39.9

TOTAL DEGREE DAYS

MOLINE, ILLINOIS

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1942-43							1407	1056	1016	506	267	30	
1943-44	1	3	164	400	898	1180	1082	1092	1007	555	137	26	6545
1944-45	2	8	77	362	674	1391	1452	1044	505	408	312	81	6316
1945-46	13	9	139	437	795	1402	1223	993	526	357	233	59	6186
1946-47	0	19	99	240	730	1043	1176	1253	1011	487	276	59	6393
1947-48	10	0	117	148	932	1078	1471	1177	914	328	232	17	6424
1948-49	0	4	69	431	709	1114	1302	1126	868	471	127	6	6227
1949-50	0	3	204	289	695	1055	1204	1126	989	636	129	34	6364
1950-51	4	24	82	222	930	1416	1372	1096	1020	543	132	37	6878
1951-52	3	4	130	350	965	1283	1232	967	970	399	195	6	6504
1952-53	0	9	97	565	702	1062	1224	974	850	570	204	2	6259
1953-54	0	1	95	266	660	1078	1284	796	953	355	291	39	5818
1954-55	0	2	58	395	722	1108	1329	1107	891	236	100	44	5992
1955-56	0	0	71	356	914	1259	1305	1096	890	537	155	26	6609
1956-57	0	13	109	189	790	1109	1492	902	861	448	191	23	6127
1957-58	0	2	136	467	800	989	1319	1345	898	435	125	41	6557
1958-59	4	21	93	289	685	1319	1523	1096	861	462	114	8	6475
#1959-60	4	1	100	462	1002	932	1212	1229	1392	376	203	13	6926
1960-61	2	1	55	348	700	1277	1355	954	789	614	242	12	6349
1961-62	1	0	121	309	722	1297	1510	1150	999	481	78	22	6690
1962-63	8	1	149	342	774	1292	1717	1315	734	370	186	15	6903
1963-64	0	16	83	108	653	1585	1129	1097	942	405	71	20	6109
1964-65	3	24	100	437	624	1241	1344	1096	1174	471	86	3	6603
1965-66	0	21	115	363	722	939	1568	1119	794	533	287	31	6492
1966-67	0	6	116	386	695	1137	1202	1289	802	404	305	10	6352
1967-68	21	33	136	424	860	1127	1354	1221	711	409	248	18	6562
1968-69	8	15	96	404	826	1247	1458	1032	1010	398	172	57	6723
1969-70	0	0	80	445	805	1253							

TOTAL PRECIPITATION

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1931	0.56	0.19	1.98	2.43	3.17	2.61	1.62	1.42	4.07	3.01	4.30	2.28	27.64
1932	0.95	0.54	1.81	1.32	4.53	4.80	3.71	7.12	0.86	3.13	1.11	1.98	31.86
1933	2.10	0.17	3.47	1.81	7.60	5.19	1.86	1.87	2.37	1.70	0.29	1.36	29.79
1934	0.75	0.66	1.15	0.96	0.98	4.21	3.98	4.51	8.88	1.34	6.47	1.05	34.94
1935	1.49	1.26	2.83	2.04	6.16	5.74	1.73	2.95					
1936									10.35	1.47	1.53		
1937			1.13	3.69	4.15	2.35	3.56	1.34	1.22	2.11	0.79	0.91	
1938	2.54	1.68	2.94	3.24	6.78	4.63	5.81	3.49	6.84	1.52	2.45	0.88	42.80
1939	1.67	1.70	2.68	3.56	2.28	3.99	2.45	5.59	0.94	2.96	0.94	0.30	29.06
1940	1.26	0.53	1.57	3.01	1.37	1.19	2.34	4.88	1.54	2.02	1.57	1.57	22.85
1941	2.86	0.53	1.38	4.49	3.49	6.46	1.67	1.66	5.45	9.41	1.25	1.43	40.08
1942	0.78	1.08	1.39	0.92	4.06	5.73	4.18	2.80	2.95	0.92	2.99	4.81	32.61
1943	1.36	1.84	1.49	5.61	6.38	4.55	2.10	4.31	1.23	3.24	1.77	0.41	34.29
1944	0.60	1.99	5.27	5.55	4.60	6.19	2.40	2.88	1.60	1.06	2.98	1.54	36.66
1945	0.44	0.90	3.36	3.88	5.07	2.52	1.39	3.86	4.74	1.09	1.71	1.69	30.65
1946	2.53	0.28	4.64	0.68	4.10	6.42	1.47	3.91	3.47	1.65	2.49	1.43	33.07
1947	2.08	0.23	2.10	7.36	3.70	5.99	4.08	0.52	5.13	0.88	1.92	1.64	35.63
1948	0.84	2.35	3.46	1.67	2.11	2.91	8.27	2.83	3.66	1.81	2.23	2.21	34.35
1949	3.28	1.78	2.76	1.10	1.82	5.45	3.40	7.12	1.96	2.27	0.71	2.91	34.56
1950	3.56	1.76	1.09	5.87	3.01	5.11	4.41	1.87	3.85	0.61	0.73	1.01	32.88
1951	1.05	2.56	5.06	3.60	5.90	6.65	5.60	8.00	3.47	3.75	1.68	1.28	48.60
1952	1.57	0.78	3.88	1.17	2.22	7.13	2.66	3.50	0.77	0.04	2.99	1.93	28.64
1953	1.04	2.72	2.68	1.73	3.18	3.43	4.88	1.05	1.79	1.00	1.07	1.90	26.47
1954	0.34	1.69	3.13	4.58	3.58	5.10	1.98	6.67	1.59	7.43	0.75	2.02	38.86
1955	2.03	1.88	1.20	5.33	2.30	3.65	1.02	2.44	2.40	2.70	0.60	0.54	26.09
1956	0.31	1.39	0.54	2.15	2.27	1.55	4.09	3.34	0.49	0.40	2.43	1.24	20.20
1957	1.33	1.57	2.90	3.49	4.11	2.52	4.47	3.17	1.16	2.00	2.38	3.82	32.92
1958	1.26	0.49	0.31	2.53	3.96	3.77	4.62	1.09	3.00	1.75	1.17	0.50	24.45
1959	1.41	1.77	3.06	4.75	5.31	3.62	4.48	3.90	4.29	5.59	1.50	2.42	42.10
1960	3.43	2.78	1.28	4.89	3.98	5.40	3.40	3.97	3.42	4.91	1.11	0.88	39.45
1961	0.31	1.20	4.48	2.19	1.98	3.69	7.63	2.37	11.00	4.53	4.94	1.58	45.90
1962	2.08	1.84	2.42	2.44	6.10	1.48	6.73	1.95	2.90	4.15	1.21	0.55	33.85
1963	0.91	0.37	3.29	4.24	2.36	1.02	8.78	4.02	2.38	0.63	1.84	0.94	30.78
1964	1.59	0.73	4.02	6.37	2.68	3.89	5.31	2.41	3.99	0.01	3.40	1.27	35.67
1965	4.08	0.97	2.52	7.92	4.04	2.07	4.78	9.31	8.27	0.88	1.93	2.82	49.59
1966	2.01	0.89	0.85	3.96	6.39	4.25	7.74	0.77	2.80	4.38	1.12	2.52	37.68
1967	2.00	1.11	1.68	4.91	1.70	8.15	4.15	3.62	4.99	6.23	2.26	1.56	42.36
1968	0.80	0.32	1.96	3.57	2.59	3.70	3.91	2.16	5.70	1.09	3.29	2.76	31.85
1969	3.28	0.21	2.25	3.11	3.40	6.97	11.39	2.00	2.50	4.63	0.53	1.52	41.79
RECORD MEAN	1.62	1.26	2.43	3.56	3.68	4.34	4.15	3.44	3.62	2.70	2.06	1.57	34.43

TOTAL SNOWFALL

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1930-31	0.0	0.0	0.0	0.0	0.0	0.0	4.5	T	9.5	T	0.0	0.0	14.0
1931-32	0.0	0.0	0.0	0.0	0.2	7.6	2.0	5.5	8.2	0.0	0.0	0.0	23.5
1932-33	0.0	0.0	0.0	0.0	1.1	3.5	2.8	2.1	4.1	0.8	0.0	0.0	14.4
1933-34	0.0	0.0	0.0	T	0.3	3.5	2.6	6.4	3.6	T	0.0	0.0	16.4
1934-35	0.0	0.0	0.0	0.0	T	9.3	1.9	2.8	8.9	0.2	0.3	0.0	23.4
1935-36	0.0	0.0	0.0	0.0								0.0	
1936-37	0.0	0.0	0.0	T	T				5.0	T	0.0	0.0	
1937-38	0.0	0.0	0.0	0.0	4.0	5.7	3.7	1.7	0.6	0.8	0.0	0.0	16.5
1938-39	0.0	0.0	0.0	0.1	0.4	3.1	11.8	6.1	2.5	T	0.0	0.0	24.0
1939-40	0.0	0.0	0.0	T	0.0	T	12.6	3.4	3.1	0.0	0.0	0.0	19.1
1940-41	0.0	0.0	0.0	0.0	2.3	1.4	14.5	3.9	11.5	0.0	0.0	0.0	33.6
1941-42	0.0	0.0	0.0	0.0	1.3	4.4	4.8	6.1	0.8	0.0	0.0	0.0	17.4
1942-43	0.0	0.0	0.1	T	1.6	7.6	11.1	2.5	5.3	T	0.0	0.0	28.2
1943-44	0.0	0.0	0.0	0.0	T	0.4	T	12.6	4.3	T	T	0.0	17.3
1944-45	0.0	0.0	0.0	0.0	0.3	13.9	5.8	4.3	0.7	T	T	0.0	25.0
1945-46	0.0	0.0	0.0	0.0	1.0	11.4	2.5	4.4	2.8	T	0.0	0.0	22.1
1946-47	0.0	0.0	0.0	T	0.0	5.3	8.5	4.3	7.2	T	0.0	0.0	25.3
1947-48	0.0	0.0	0.0	0.0	7.7	1.8	3.8	3.0	8.0	0.0	0.0	0.0	24.3
1948-49	0.0	0.0	0.0	0.0	T	6.2	5.3	2.5	0.9	1.1	0.0	0.0	16.0
1949-50	0.0	0.0	0.0	0.0	0.5	2.3	1.7	7.9	2.5	0.4	0.0	0.0	15.3
1950-51	0.0	0.0	0.0	0.0	2.1	7.3	7.1	4.9	17.0	1.4	0.0	0.0	39.8
1951-52	0.0	0.0	0.0	T	3.4	16.7	4.7	5.9	15.2	T	0.0	0.0	45.9
1952-53	0.0	0.0	0.0	0.0	T	2.5	12.1	6.2	7.1	0.4	0.0	0.0	28.3
1953-54	0.0	0.0	0.0	0.0	1.4	7.8	1.4	4.9	2.2	0.0	T	0.0	17.7
1954-55	0.0	0.0	0.0	T	3.7	16.2	11.2	6.1	8.8	0.0	0.0	0.0	46.0
1955-56	0.0	0.0	0.0	T	2.0	2.9	2.2	7.5	0.7	0.3	0.0	0.0	15.6
1956-57	0.0	0.0	0.0	0.0	2.1	6.5	11.8	0.7	6.9	6.5	0.0	0.0	34.5
1957-58	0.0	0.0	0.0	0.0	0.3	6.4	14.0	1.7	2.0	T	0.0	0.0	24.4
1958-59	0.0	0.0	0.0	0.0	0.9	8.1	15.1	3.6	13.9	1.7	0.0	0.0	43.3
1959-60	0.0	0.0	0.0	T	9.1	9.9	8.5	19.3	14.7	T	T	0.0	61.5
1960-61	0.0	0.0	0.0	0.0	T	5.5	3.4	2.5	2.4	2.5	0.0	0.0	16.3
1961-62	0.0	0.0	0.0	0.0	T	13.6	11.2	15.8	7.1	0.2	0.0	0.0	47.9
1962-63	0.0	0.0	0.0	0.2	T	3.1	14.7	5.8	7.3	0.0	0.0	0.0	31.1
1963-64	0.0	0.0	0.0	0.0	T	9.7	5.3	5.5	13.9	T	0.0	0.0	34.4
1964-65	0.0	0.0	0.0	0.0	2.1	11.7	10.2	7.4	16.2	0.0	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.3	5.7	6.0	0.8	0.7	0.1	T	0.0	13.6
1966-67	0.0	0.0	0.0	0.0	T	7.2	14.4	13.2	2.2	1.1	0.0	0.0	38.1
1967-68	0.0	0.0	0.0	6.6	0.3	3.2	8.6	2.8	1.1	T	0.0	0.0	22.6
1968-69	0.0	0.0	0.0	T	5.9	5.4	6.2	0.9	5.6	0.0	T	0.0	24.0
1969-70	0.0	0.0	0.0	0.0	1.5	15.4							

Record mean values above (not adjusted for instrument location changes listed in the Station Location table) are means for the period beginning in 1930 for temperature and 1927 for precipitation.

# Indicates a break in the data sequence during the year, or season, due to a station move or relocation of instruments. See Station Location table.

STATION LOCATION

MOLINE, ILLINOIS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Elevation above Ground: Extreme thermometers	Elevation above Ground: Psychrometer	Elevation above Ground: Telepsychrometer	Elevation above Ground: Tipping bucket rain gage	Elevation above Ground: Weighing rain gage	Elevation above Ground: 8" rain gage	Elevation above Ground: Hygrothermometer	Elevation above Sea level: Pyranometer	Remarks
NE Corner, Moline AP 4.5 mi. S of Moline P.O.	10- 1-26	12-27-39		41° 27'	90° 31'	589	53	3	3				3			
Administration Building Quad City Airport	12-27-39	4- 3-61	1200 ft. W	41° 27'	90° 31'	g582	a25	b36	c36	d5		e5	15	f4		a - 54 ft. for autographic record and 62 ft. for direct reading until moved to field 11-13-58. b - 5 ft. to 5-31-55 and 6-7-56 to 4-16-58. c - 5 ft. to 12-1-54 and 6-7-56 to 4-16-58. d - Added 6-7-56, removed 3-1-60. e - 4 ft. to 4-16-58. f - Commissioned 3-1-60. g - 589 ft. to 3-1-60.
Terminal Building Quad City Airport	4- 4-61	Present	200 ft. SE	41° 27'	90° 31'	582	25	17	17			h16	15	4		h - 5 ft. to 7-22-63.

Requests for additional information should be directed to the Weather Bureau Office for which this summary was issued.

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LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA, 1968

UNIVERSITY OF ILLINOIS-URBANA
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LOCAL CLIMATOLOGICAL DATA, ANNUAL SUMMAR
1968
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MOLINE, ILLINOIS

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NARRATIVE CLIMATOLOGICAL SUMMARY

This area has a temperate continental climate, with a wide temperature range throughout the year. There are some intensely hot, usually humid, periods in summer and severely cold periods in winter. Maxima of 90° or higher have occurred as frequently as on 53 days (1936), but in 1882 there were none. Zero or lower readings have occurred during every winter of record.

Freezing temperatures have occurred as late in spring as May 22 and as early in autumn as September 18. Precipitation usually is well distributed throughout the year. Normally the greatest amounts fall during the 180-day average crop growing season (April 19-October 15, inclusive). Substantial weather changes frequently occur at 3-or 4-day intervals, as a direct result of proximity to some of the most important storm tracks.

The locality is in the heart of the Corn Belt. Agricultural crops include many important staple products in addition to corn. Cattle, hogs, horses, and poultry produced in Iowa and Illinois rank high in the nation. Close to the Mississippi River there is large scale truck gardening and considerable dairying. Field production of grains and livestock attains greater development farther away from the large streams, where the countryside is rolling prairie. Damaging drouths are not common. This, together with the variety of agricultural products, has led to designating the section as the "Bread Basket" or the "Garden Spot" of America.

The climate is favorable for many industries as evidenced by the large number and variety of manufacturing and other enterprises which have located and developed in the community. Among these are some of the world's largest producers of agricultural machinery.

Records began in Davenport, Iowa, in May 1871, and have been continuous to date. At the Quad-City Airport, Moline, Illinois, records began in October 1926, but are not complete in the years 1935. 1936, and 1937. For a summary of data from Lock & Dam No. 15, Davenport, Iowa, please refer to IOWA CLIMATOLOGICAL DATA.

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ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
ROBERT M. WHITE, Administrator
ENVIRONMENTAL DATA SERVICE

LATITUDE 41° 27' N
LONGITUDE 90° 31' W
ELEVATION (ground) 582 Feet

METEOROLOGICAL DATA FOR THE CURRENT YEAR

MOLINE, ILLINOIS
QUAD CITY AIRPORT
1968

Month	Temperature: Averages: Daily maximum	Daily minimum	Monthly	Extremes: Highest	Date	Lowest	Date	Degree days	Precipitation: Total	Greatest in 24 hrs.	Date	Snow, Sleet: Total	Greatest in 24 hrs.	Date	Relative humidity (Standard time used: CENTRAL): Mid.	6 AM	Noon	6 PM	Wind & Resultant: Direction	Speed	Average speed	Fastest mile: Speed	Direction #	Date	Percent of possible sunshine	Average sky cover sunrise to sunset	Number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Sleet 1.0 inch or more	Thunderstorms	Heavy fog	Temperatures: Maximum: 90° and above	32° and below	Minimum: 32° and below	0° and below
JAN	29.5	12.5	21.0	52	29+	-17	1	1354	0.80	0.31	12-13	8.6	3.4	12-13	68	68	65	68	25	1.7	10.3	28	W	4	46	6.9	5	10	16	10	3	0	3	0	18	30	10
FEB	32.4	13.0	22.7	52	1	- 2	22	1221	0.32	0.10	6 +	2.8	1.1	6-7	59	60	45	47	29	7.8	11.7	34	NW	16+	71	4.1	16	5	8	7	1	1	0	0	15	29	2
MAR	54.0	29.8	41.9	80	28	11	3	711	1.96	0.70	18-19	1.1	1.1	21	63	70	45	45	25	4.6	12.6	36	SW	14	68	6.2	7	7	17	6	1	2	1	0	1	20	0
APR	62.8	39.7	51.3	80	30+	26	1	409	3.57	0.89	19-20	T	T	24 +	69	76	49	50	21	6.5	13.6	39	NW	14	56	6.4	7	9	14	11	0	6	1	0	0	8	0
MAY	68.4	45.9	57.2	89	2	35	10	248	2.59	0.59	22-23	0.0	0.0		75	79	53	53	24	1.6	10.6	38	W	16	48	7.1	3	10	18	13	0	4	1	0	0	0	0
JUN	83.8	60.3	72.1	96	10+	47	28	18	3.70	1.02	23-24	0.0	0.0		74	79	52	55	21	4.2	9.9	44	NW	23	65	5.9	6	14	10	10	0	9	2	8	0	0	0
JUL	84.0	62.2	73.1	95	21	47	3	8	3.91	2.21	23-24	0.0	0.0		72	77	54	56	20	2.6	8.6	32	SW	7	76	5.4	9	15	7	6	0	7	0	4	0	0	0
AUG	84.5	62.5	73.5	96	23+	45	28	15	2.16	1.02	16	0.0	0.0		84	90	55	59	19	2.8	8.5	25	W	24+	72	5.3	13	6	12	7	0	6	1	11	0	0	0
SEP	74.5	51.7	63.1	87	3	40	28	96	5.70	2.07	23-24	0.0	0.0		88	92	59	68	20	3.9	8.5	32	NW	5	60	5.7	9	11	10	11	0	6	0	0	0	0	0
OCT	64.4	41.9	53.2	85	15	25	29	404	1.09	0.65	21-22	T	T	27	77	83	54	62	21	6.0	10.9	39	W	27	62	5.4	10	12	9	8	0	1	2	0	0	4	0
NOV	45.0	29.5	37.3	69	1	17	13	826	3.29	1.50	28	5.9	5.0	28	79	84	67	73	29	3.4	9.5	26	N	28	36	8.1	4	3	23	9	1	0	1	0	1	20	0
DEC	31.8	17.2	24.5	57	12	-14	31	1247	2.76	0.81	27-28	5.4	2.0	28	76	79	69	71	25	4.6	13.1	44	NW	5	39	7.4	7	3	21	10	3	0	2	0	16	29	2
YEAR	59.6	38.9	49.3	96	AUG. 23+	-17	JAN. 1	6557	31.85	2.21	JUL. 23-24	23.8	5.0	NOV. 28	74	78	56	59	23	3.4	10.7	44	NW	DEC. 5+	59	6.2	96	105	165	108	9	42	14	23	51	140	14

NORMALS, MEANS, AND EXTREMES

Month	Temperature: Normal: Daily maximum	Daily minimum	Monthly	Extremes: Record highest	Year	Record lowest	Year	Normal degree days	Precipitation: Normal total	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year	Snow, Sleet: Mean total	Maximum monthly	Year	Maximum in 24 hrs.	Year	Relative humidity (Standard time used: CENTRAL): Mid.	6 AM	Noon	6 PM	Wind: Mean hourly speed	Prevailing direction	Fastest mile: Speed	Direction #	Year	Pct. of possible sunshine	Mean sky cover sunrise to sunset	Mean number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Sleet 1.0 inch or more	Thunderstorms	Heavy fog	Temperatures: Max.: 90° and above	32° and below	Min.: 32° and below	0° and below
(a)	(b)	(b)	(b)	9		9		(b)	(b)	39		39		39		36	37		35		8	8	8	8	25	12	40	40		25	26	35	35	35	36	36	35	34	8	8	8	8
J	31.6	13.6	22.6	63	1967	-26	1963	1314	1.61	4.08	1965	0.31	1961+	2.07	1960	7.3	15.1	1959	11.7	1967	72	73	65	69	10.5	WNW	56	SW	1946	48	6.6	8	7	16	9	2	*	3	0	19	29	9
F	34.8	16.6	25.7	64	1965	-16	1963	1100	1.35	2.78	1960	0.17	1933	1.90	1948	5.4	19.3	1960	8.5	1960	71	73	62	64	10.9	WNW	58	NW	1948	49	6.3	7	7	14	8	2	*	2	0	13	27	4
M	45.1	25.6	35.4	80	1968	-19	1960	918	2.39	5.27	1944	0.31	1958	2.38	1944	6.2	17.0	1951	8.2	1952	75	78	62	63	12.0	WNW	66	SW	1954+	50	6.8	6	8	17	11	2	2	2	0	4	22	*
A	61.7	38.3	50.0	87	1962	21	1962+	450	3.17	7.92	1965	0.68	1946	2.80	1959	0.5	6.5	1957	5.6	1957	76	81	57	58	12.2	NW	73	SW	1947	53	6.6	6	9	15	11	*	5	1	0	0	7	0
M	73.1	49.2	61.2	94	1967	26	1966	189	3.80	7.60	1933	0.55	1928	2.60	1954	T	0.3	1935	0.3	1935	76	81	53	53	10.5	E	68	SW	1955	58	6.4	7	9	15	12	0	7	1	1	0	1	0
J	83.2	59.5	71.4	98	1963	41	1966	39	4.37	8.15	1967	1.02	1963	5.02	1967	0.0	0.0		0.0		79	83	53	54	9.0	S	77	SW	1947	64	6.1	7	10	13	10	0	8	1	7	0	0	0
J	88.0	63.2	75.6	100	1966	47	1968	0	3.26	8.78	1963	1.02	1955	5.41	1963	0.0	0.0		0.0		82	85	57	59	7.4	E	65	W	1953	72	5.3	10	12	9	9	0	9	1	7	0	0	0
A	85.7	61.4	73.6	97	1963	44	1963	9	3.53	9.31	1965	0.52	1947	4.60	1951	0.0	0.0		0.0		85	89	57	61	7.1	E	61	SW	1931	70	5.3	10	11	10	8	0	7	2	5	0	0	0
S	78.1	52.5	65.3	98	1960	32	1967+	99	3.25	11.00	1961	0.49	1956	6.29	1961	T	0.1	1942	0.1	1942	85	89	59	69	8.1	S	66	NW	1945	66	5.1	12	8	10	9	0	4	2	2	0	*	0
O	67.1	42.4	54.8	92	1963	19	1962	335	2.46	9.41	1941	0.01	1964	4.89	1954	0.2	6.6	1967	6.5	1967	76	83	53	62	9.1	S	56	SW	1949	62	5.0	13	7	11	7	*	2	2	*	0	6	0
N	48.9	29.5	39.2	77	1961	3	1964	774	1.95	6.47	1934	0.29	1933	2.73	1961	1.5	9.1	1959	5.7	1959	77	82	62	70	10.8	WNW	60	W	1952	44	6.6	8	7	15	7	*	1	1	0	1	19	0
D	35.4	18.3	26.9	64	1962+	-22	1963	1181	1.65	4.81	1942	0.23	1929	3.38	1942	6.6	16.7	1951	8.4	1954	77	79	70	74	10.6	WNW	61	SW	1947	42	6.7	7	6	18	9	2	1	2	0	15	27	5
YR	61.1	39.2	50.1	100	JUL. 1966	-26	JAN. 1963	6408	32.79	11.00	SEP. 1961	0.01	OCT. 1964	6.29	SEP. 1961	27.7	19.3	FEB. 1960	11.7	JAN. 1967	78	81	59	63	9.9	WNW	77	SW	JUN. 1947	58	6.1	101	101	163	110	9	47	20	22	52	137	18

Means and extremes in the above table are from existing locations. Annual extremes have been exceeded at other locations as follows:
Highest temperature 106 in August 1936.

(a) Length of record, years.
(b) Climatological standard normals (1931-1960).
* Less than one half.
\+ Also on earlier dates, months or years.
T Trace, an amount too small to measure.
Below-zero temperatures are preceded by a minus sign.
The prevailing direction for wind in the Normals, Means, and Extremes table is from records through 1963.

\# To 8 compass points only.

Unless otherwise indicated, dimensional units used in this bulletin are: temperature in degrees F.; precipitation, including snowfall, in inches; wind movement in miles per hour; and relative humidity in percent. Degree day totals are the sums of the negative departures of average daily temperatures from 65° F. Sleet was included in snowfall totals beginning with July 1948. Heavy fog reduces visibility to 1/4 mile or less.

Sky cover is expressed in a range of 0 for no clouds or obscuring phenomena to 10 for complete sky cover. The number of clear days is based on sverage cloudiness 0-3; partly cloudy days 4-7; and cloudy days 8-10 tenths.

& Figures instead of letters in s direction column indicate direction in tens of degrees from true North; i.e., 09 - East, 18 - South, 27 - West, 36 - North, snd 00 - Calm. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations. If figures appear in the direction column under "Fastest mile" the corresponding speeds are fastest observed 1-minute values.

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MOLINE, ILLINOIS
QUAD CITY AIRPORT

AVERAGE TEMPERATURE

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1931	29.7	34.8	34.6	50.2	56.6	74.6	73.2	72.1	71.2	57.4	47.4	35.6	53.1
1932	29.4	33.2	28.4	49.3	62.9	72.8	75.4	72.2	62.6	50.0	34.2	24.8	49.6
1933	34.8	23.7	36.4	48.6	61.6	77.6	76.0	71.0	70.2	50.0	37.7	29.0	51.4
1934	30.0	22.2	33.8	50.4	68.4	78.1	79.2	71.7	62.5	56.3	44.3	22.4	51.6
1935	22.8	29.2	41.0	47.2	54.8	66.4	79.1	74.2					
1936								80.1	68.6	53.6	37.6		
1937			34.4	48.9	63.0	70.9	76.4	77.4	65.8	51.6	36.4	24.6	
1938	22.4	34.4	44.8	52.4	61.4	69.0	77.0	76.3	67.5	58.6	40.4	27.0	52.6
1939	29.6	24.4	38.0	46.6	65.8	72.2	75.7	71.0	68.8	54.2	39.6	33.1	51.6
1940	10.0	26.2	32.3	47.8	57.8	72.6	76.9	72.1	64.3	57.0	36.0	31.5	48.7
1941	25.6	22.4	33.6	54.4	65.8	71.6	75.0	74.8	67.5	55.6	41.6	34.1	51.8
1942	22.5	24.6	39.5	55.3	60.8	71.0	75.0	71.7	63.0	53.2	39.7	21.0	49.8
1943	19.6	27.3	32.3	48.2	57.8	73.2	75.9	74.8	61.2	52.2	35.0	26.9	48.7
1944	30.1	27.4	32.6	46.4	66.2	73.6	73.8	73.4	66.2	53.4	42.5	20.2	50.5
1945	18.2	27.7	48.8	51.6	55.6	66.5	72.2	73.2	63.9	51.0	38.6	19.7	48.9
1946	25.6	29.5	48.0	53.5	57.8	70.2	74.8	69.2	64.8	57.8	40.8	31.4	52.0
1947	27.0	20.1	32.5	48.8	56.5	67.4	72.2	81.0	68.2	62.6	33.8	30.2	50.0
1948	17.5	24.4	35.6	55.2	57.8	69.0	75.1	73.6	67.6	51.1	41.3	29.0	49.8
1949	23.0	24.8	37.1	49.4	63.8	73.6	78.0	73.5	59.0	57.0	41.8	31.0	51.0
1950	25.9	24.7	32.9	43.6	62.0	69.6	71.1	68.5	64.1	59.2	33.8	19.1	47.9
1951	20.6	25.6	31.8	47.3	63.3	67.2	72.9	71.5	61.8	54.6	32.6	23.4	47.7
1952	25.1	31.4	33.5	52.1	60.6	75.7	76.4	71.1	64.7	46.6	41.4	30.5	50.7
1953	25.3	30.0	37.3	45.9	60.5	74.3	75.9	74.3	65.4	57.9	42.8	30.0	51.6
1954	23.3	36.3	34.0	53.7	56.1	74.6	76.2	72.0	67.5	53.1	40.7	29.1	51.4
1955	22.0	25.3	36.0	57.0	63.8	67.8	80.5	76.8	66.4	53.6	34.2	24.2	50.6
1956	22.7	26.9	36.1	47.1	62.6	74.0	73.2	73.3	63.4	59.0	38.4	28.9	50.5
1957	16.6	32.5	37.0	50.4	59.6	70.4	76.7	73.2	61.9	49.8	38.1	32.8	49.9
1958	22.2	16.7	35.7	50.5	62.2	66.3	71.3	73.5	64.4	56.0	42.0	22.2	48.6
1959	15.7	25.7	36.9	49.4	65.3	72.0	73.2	77.2	66.3	49.9	31.4	34.7	49.8
1960	25.7	22.3	19.9	53.4	58.9	68.5	72.8	73.8	68.6	53.8	41.5	23.7	48.6
1961	21.1	30.7	39.3	44.3	58.1	71.9	74.2	73.9	66.1	55.4	40.8	23.0	49.9
1962	16.2	23.7	32.6	49.3	67.9	70.6	71.6	72.9	61.7	55.2	39.0	23.2	48.7
1963	9.7	17.9	41.1	52.9	60.0	73.5	74.8	70.8	64.9	64.4	43.1	13.8	48.9
1964	28.4	27.0	34.4	51.5	66.3	72.3	76.6	70.8	65.6	50.7	44.2	24.8	51.1
1965	21.4	25.7	26.9	49.2	65.9	69.6	74.9	71.1	63.5	53.6	40.7	34.5	49.8
1966	14.3	24.8	39.2	47.0	56.3	70.5	77.9	70.6	62.9	52.5	41.7	28.1	48.8
1967	26.0	18.7	39.0	51.6	56.4	70.9	71.4	67.7	62.1	52.1	36.1	28.5	48.4
1968	21.0	22.7	41.9	51.3	57.2	72.1	73.1	73.5	63.1	53.2	37.3	24.5	49.3
RECORD MEAN	22.5	26.5	36.0	50.1	61.0	71.4	75.2	73.2	65.1	54.3	39.1	27.0	50.1
MAX	31.1	35.2	45.2	60.8	72.0	82.3	86.4	84.3	76.7	65.9	48.3	35.0	60.3
MIN	13.9	17.7	26.7	39.3	50.0	60.4	64.0	62.0	53.4	42.6	29.8	18.9	39.9

TOTAL DEGREE DAYS

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1942-43							1407	1056	1016	506	267	30	
1943-44	1	3	164	400	898	1180	1082	1092	1007	555	137	26	6545
1944-45	2	8	77	362	674	1391	1452	1044	505	408	312	81	6316
1945-46	13	9	139	437	795	1402	1223	993	526	357	233	59	6186
1946-47	0	19	99	240	730	1043	1176	1253	1011	487	276	59	6393
1947-48	10	0	117	148	932	1078	1471	1177	914	328	232	17	6424
1948-49	0	4	69	431	709	1114	1302	1126	868	471	127	6	6227
1949-50	0	3	204	289	695	1055	1204	1126	989	636	129	34	6364
1950-51	4	24	82	222	930	1416	1372	1096	1020	543	132	37	6878
1951-52	3	4	130	350	965	1283	1232	967	970	399	195	6	6504
1952-53	0	9	97	565	702	1062	1224	974	850	570	204	2	6259
1953-54	0	1	95	266	660	1078	1284	796	953	355	291	39	5818
1954-55	0	2	58	395	722	1108	1329	1107	891	236	100	44	5992
1955-56	0	0	71	356	914	1259	1305	1096	890	537	155	26	6609
1956-57	0	13	109	189	790	1109	1492	902	861	448	191	23	6127
1957-58	0	2	136	467	800	989	1319	1345	898	435	125	41	6557
1958-59	4	21	93	289	685	1319	1523	1096	861	462	114	8	6475
1959-60	4	1	100	462	1002	932	1212	1229	1392	376	203	13	6926
1960-61	2	1	55	348	700	1277	1355	954	789	614	242	12	6349
1961-62	1	0	121	309	722	1297	1510	1150	999	481	78	22	6690
1962-63	8	1	149	342	774	1292	1717	1315	734	370	186	15	6903
1963-64	0	16	83	108	653	1585	1129	1097	942	405	71	20	6109
1964-65	3	24	100	437	624	1241	1344	1096	1174	471	86	3	6603
1965-66	0	21	115	363	722	939	1568	1119	794	533	287	31	6492
1966-67	0	6	116	386	695	1137	1202	1289	802	404	305	10	6352
1967-68	21	33	136	424	860	1127	1354	1221	711	409	248	18	6562
1968-69	8	15	96	404	826	1247							

TOTAL PRECIPITATION

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1931	0.56	0.19	1.98	2.43	3.17	2.61	1.62	1.42	4.07	3.01	4.30	2.28	27.64
1932	0.95	0.54	1.81	1.32	4.53	4.80	3.71	7.12	0.86	3.13	1.11	1.98	31.86
1933	2.10	0.17	3.47	1.81	7.60	5.19	1.86	1.87	2.37	1.70	0.29	1.36	29.79
1934	0.75	0.66	1.15	0.96	0.98	4.21	3.98	4.51	8.88	1.34	6.47	1.05	34.94
1935	1.49	1.26	2.83	2.04	6.16	5.74	1.73	2.95					
1936									10.35	1.47	1.53		
1937			1.13	3.69	4.15	2.35	3.56	1.34	1.22	2.11	0.79	0.91	
1938	2.54	1.68	2.94	3.24	6.78	4.63	5.81	3.49	6.84	1.52	2.45	0.88	42.80
1939	1.67	1.70	2.68	3.56	2.28	3.99	2.45	5.59	0.94	2.96	0.94	0.30	29.06
1940	1.26	0.53	1.57	3.01	1.37	1.19	2.34	4.88	1.54	2.02	1.57	1.57	22.85
1941	2.86	0.53	1.38	4.49	3.49	6.46	1.67	1.66	5.45	9.41	1.25	1.43	40.08
1942	0.78	1.08	1.39	0.92	4.06	5.73	4.18	2.80	2.95	0.92	2.99	4.81	32.61
1943	1.36	1.84	1.49	5.61	6.38	4.55	2.10	4.31	1.23	3.24	1.77	0.41	34.29
1944	0.60	1.99	5.27	5.55	4.60	6.19	2.40	2.88	1.60	1.06	2.98	1.54	36.66
1945	0.44	0.90	3.36	3.88	5.07	2.52	1.39	3.86	4.74	1.09	1.71	1.69	30.65
1946	2.53	0.28	4.64	0.68	4.10	6.42	1.47	3.91	3.47	1.65	2.49	1.43	33.07
1947	2.08	0.23	2.10	7.36	3.70	5.99	4.08	0.52	5.13	0.88	1.92	1.64	35.63
1948	0.84	2.35	3.46	1.67	2.11	2.91	8.27	2.83	3.66	1.81	2.23	2.21	34.35
1949	3.28	1.78	2.76	1.10	1.82	5.45	3.40	7.12	1.96	2.27	0.71	2.91	34.56
1950	3.56	1.76	1.09	5.87	3.01	5.11	4.41	1.87	3.85	0.61	0.73	1.01	32.88
1951	1.05	2.56	5.06	3.60	5.90	6.65	5.60	8.00	3.47	3.75	1.68	1.28	48.60
1952	1.57	0.78	3.88	1.17	2.22	7.13	2.66	3.50	0.77	0.04	2.99	1.93	28.64
1953	1.04	2.72	2.68	1.73	3.18	3.43	4.88	1.05	1.79	1.00	1.07	1.90	26.47
1954	0.34	1.69	3.13	4.58	3.58	5.10	1.98	6.67	1.59	7.43	0.75	2.02	38.86
1955	2.03	1.88	1.20	5.33	2.30	3.65	1.02	2.44	2.40	2.70	0.60	0.54	26.09
1956	0.31	1.39	0.54	2.15	2.27	1.55	4.09	3.34	0.49	0.40	2.43	1.24	20.20
1957	1.33	1.57	2.90	3.49	4.11	2.52	4.47	3.17	1.16	2.00	2.38	3.82	32.92
1958	1.26	0.49	0.31	2.53	3.96	3.77	4.62	1.09	3.00	1.75	1.17	0.50	24.45
1959	1.41	1.77	3.06	4.75	5.31	3.62	4.48	3.90	4.29	5.59	1.50	2.42	42.10
1960	3.43	2.78	1.28	4.89	3.98	5.40	3.40	3.97	3.42	4.91	1.11	0.88	39.45
1961	0.31	1.20	4.48	2.19	1.98	3.69	7.63	2.37	11.00	4.53	4.94	1.58	45.90
1962	2.08	1.84	2.42	2.44	6.10	1.48	6.73	1.95	2.90	4.15	1.21	0.55	33.85
1963	0.91	0.37	3.29	4.24	2.36	1.02	8.78	4.02	2.38	0.63	1.84	0.94	30.78
1964	1.59	0.73	4.02	6.37	2.68	3.89	5.31	2.41	3.99	0.01	3.40	1.27	35.67
1965	4.08	0.97	2.52	7.92	4.04	2.07	4.78	9.31	8.27	0.88	1.93	2.82	49.59
1966	2.01	0.89	0.85	3.96	6.39	4.25	7.74	0.77	2.80	4.38	1.12	2.52	37.68
1967	2.00	1.11	1.68	4.91	1.70	8.15	4.15	3.62	4.99	6.23	2.26	1.56	42.36
1968	0.80	0.32	1.96	3.57	2.59	3.70	3.91	2.16	5.70	1.09	3.29	2.76	31.85
RECORD MEAN	1.57	1.29	2.43	3.57	3.68	4.27	3.97	3.48	3.65	2.65	2.10	1.57	34.23

TOTAL SNOWFALL

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1930-31	0.0	0.0	0.0	0.0	0.0	0.0	4.5	T	9.5	T	0.0	0.0	14.0
1931-32	0.0	0.0	0.0	0.0	0.2	7.6	2.0	5.5	8.2	0.0	0.0	0.0	23.5
1932-33	0.0	0.0	0.0	0.0	1.1	3.5	2.8	2.1	4.1	0.8	0.0	0.0	14.4
1933-34	0.0	0.0	0.0	T	0.3	3.5	2.6	6.4	3.6	T	0.0	0.0	16.4
1934-35	0.0	0.0	0.0	0.0	T	9.3	1.9	2.8	8.9	0.2	0.3	0.0	23.4
1935-36	0.0	0.0	0.0	0.0								0.0	
1936-37	0.0	0.0	0.0	T	T				5.0	T	0.0	0.0	
1937-38	0.0	0.0	0.0	0.0	4.0	5.7	3.7	1.7	0.6	0.8	0.0	0.0	16.5
1938-39	0.0	0.0	0.0	0.1	0.4	3.1	11.8	6.1	2.5	T	0.0	0.0	24.0
1939-40	0.0	0.0	0.0	T	0.0	T	12.6	3.4	3.1	0.0	0.0	0.0	19.1
1940-41	0.0	0.0	0.0	0.0	2.3	1.4	14.5	3.9	11.5	0.0	0.0	0.0	33.6
1941-42	0.0	0.0	0.0	0.0	1.3	4.4	4.8	6.1	0.8	0.0	0.0	0.0	17.4
1942-43	0.0	0.0	0.1	T	1.6	7.6	11.1	2.5	5.3	T	0.0	0.0	28.2
1943-44	0.0	0.0	0.0	0.0	T	0.4	T	12.6	4.3	T	T	0.0	17.3
1944-45	0.0	0.0	0.0	0.0	0.3	13.9	5.8	4.3	0.7	T	T	0.0	25.0
1945-46	0.0	0.0	0.0	0.0	1.0	11.4	2.5	4.4	2.8	T	0.0	0.0	22.1
1946-47	0.0	0.0	0.0	T	0.0	5.3	8.5	4.3	7.2	T	0.0	0.0	25.3
1947-48	0.0	0.0	0.0	0.0	7.7	1.8	3.8	3.0	8.0	0.0	0.0	0.0	24.3
1948-49	0.0	0.0	0.0	0.0	T	6.2	5.3	2.5	0.9	1.1	0.0	0.0	16.0
1949-50	0.0	0.0	0.0	0.0	0.5	2.3	1.7	7.9	2.5	0.4	0.0	0.0	15.3
1950-51	0.0	0.0	0.0	0.0	2.1	7.3	7.1	4.9	17.0	1.4	0.0	0.0	39.8
1951-52	0.0	0.0	0.0	T	3.4	16.7	4.7	5.9	15.2	T	0.0	0.0	45.9
1952-53	0.0	0.0	0.0	0.0	T	2.5	12.1	6.2	7.1	0.4	0.0	0.0	28.3
1953-54	0.0	0.0	0.0	0.0	1.4	7.8	1.4	4.9	2.2	0.0	T	0.0	17.7
1954-55	0.0	0.0	0.0	T	3.7	16.2	11.2	6.1	8.8	0.0	0.0	0.0	46.0
1955-56	0.0	0.0	0.0	T	2.0	2.9	2.2	7.5	0.7	0.3	0.0	0.0	15.6
1956-57	0.0	0.0	0.0	0.0	2.1	6.5	11.8	0.7	6.9	6.5	0.0	0.0	34.5
1957-58	0.0	0.0	0.0	0.0	0.3	6.4	14.0	1.7	2.0	T	0.0	0.0	24.4
1958-59	0.0	0.0	0.0	0.0	0.9	8.1	15.1	3.6	13.9	1.7	0.0	0.0	43.3
1959-60	0.0	0.0	0.0	T	9.1	9.9	8.5	19.3	14.7	T	T	0.0	61.5
1960-61	0.0	0.0	0.0	0.0	T	5.5	3.4	2.5	2.4	2.5	0.0	0.0	16.3
1961-62	0.0	0.0	0.0	0.0	T	13.6	11.2	15.8	7.1	0.2	0.0	0.0	47.9
1962-63	0.0	0.0	0.0	0.2	T	3.1	14.7	5.8	7.3	0.0	0.0	0.0	31.1
1963-64	0.0	0.0	0.0	0.0	T	9.7	5.3	5.5	13.9	T	0.0	0.0	34.4
1964-65	0.0	0.0	0.0	0.0	2.1	11.7	10.2	7.4	16.2	0.0	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.3	5.7	6.0	0.8	0.7	0.1	T	0.0	13.6
1966-67	0.0	0.0	0.0	0.0	T	7.2	14.4	13.2	2.2	1.1	0.0	0.0	38.1
1967-68	0.0	0.0	0.0	6.6	0.3	3.2	8.6	2.8	1.1	T	0.0	0.0	22.6
1968-69	0.0	0.0	0.0	T	5.9	5.4							

Record mean values above (not adjusted for instrument location changes listed in the Station Location table) are means for the period beginning in 1930 for temperature and 1927 for precipitation.

A horizontal line drawn on the above tables indicates a break in the data sequence due to a change in instrument exposure or a station move (see Station Location table).

STATION LOCATION

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Elevation above Ground: Extreme thermometers	Elevation above Ground: Psychrometer	Elevation above Ground: Telepsychrometer	Elevation above Ground: Tipping bucket rain gage	Elevation above Ground: Weighing rain gage	Elevation above Ground: 8" rain gage	Elevation above Ground: Hygrothermometer	Elevation above Sea level: Pyranometer	Remarks
NE Corner, Moline AP 4.5 mi. S of Moline P.O.	10- 1-26	12-27-39		41° 27'	90° 31'	589	53	3	3				3			
Administration Building Quad City Airport	12-27-39	4- 3-61	1200 ft. W	41° 27'	90° 31'	g582	a25	b36	c36	d5		e5	15	f4		a - 54 ft. for autographic record and 62 ft. for direct reading until moved to field 11-13-58. b - 5 ft. to 5-31-55 and 6-7-56 to 4-16-58. c - 5 ft. to 12-1-54 and 6-7-56 to 4-16-58. d - Added 6-7-56, removed 3-1-60. e - 4 ft. to 4-16-58. f - Commissioned 3-1-60. g - 589 ft. to 3-1-60.
Terminal Building Quad City Airport	4- 4-61	Present	200 ft. SE	41° 27'	90° 31'	582	25	17	17			h16	15	4		h - 5 ft. to 7-22-63.

Requests for additional information should be directed to the Weather Bureau Office for which this summary was issued.

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LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA, 1967

MOLINE, ILLINOIS

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NARRATIVE CLIMATOLOGICAL SUMMARY

This area has a temperate continental climate, with a wide temperature range throughout the year. There are some intensely hot, usually humid, periods in summer and severely cold periods in winter. Maxima of 90° or higher have occurred as frequently as on 53 days (1936), but in 1882 there were none. Zero or lower readings have occurred during every winter of record.

Freezing temperatures have occurred as late in spring as May 22 and as early in autumn as September 18. Precipitation usually is well distributed throughout the year. Normally the greatest amounts fall during the 180-day average crop growing season (April 19-October 15, inclusive). Substantial weather changes frequently occur at 3-or 4-day intervals, as a direct result of proximity to some of the most important storm tracks.

The locality is in the heart of the Corn Belt. Agricultural crops include many important staple products in addition to corn. Cattle, hogs, horses, and poultry produced in Iowa and Illinois rank high in the nation. Close to the Mississippi River there is large scale truck gardening and considerable dairying. Field production of grains and livestock attains greater development farther away from the large streams, where the countryside is rolling prairie. Damaging drouths are not common. This, together with the variety of agricultural products, has led to designating the section as the "Bread Basket" or the "Garden Spot" of America.

The climate is favorable for many industries as evidenced by the large number and variety of manufacturing and other enterprises which have located and developed in the community. Among these are some of the world's largest producers of agricultural machinery.

Records began in Davenport, Iowa, in May 1871, and have been continuous to date. At the Quad-City Airport, Moline, Illinois, records began in October 1926, but are not complete in the years 1935. 1936, and 1937. For a summary of data from Lock & Dam No. 15, Davenport, Iowa, please refer to IOWA CLIMATOLOGICAL DATA.

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ENVIRONMENTAL DATA SERVICE

LATITUDE 41° 27' N
LONGITUDE 90° 31' W
ELEVATION (ground) 582 Feet

METEOROLOGICAL DATA FOR THE CURRENT YEAR

MOLINE, ILLINOIS
QUAD CITY AIRPORT
1967

Month	Temperature: Averages: Daily maximum	Daily minimum	Monthly	Extremes: Highest	Date	Lowest	Date	Degree days	Precipitation: Total	Greatest in 24 hrs.	Date	Snow, Sleet: Total	Greatest in 24 hrs.	Date	Relative humidity: Mid.	6 AM	Noon	6 PM	Wind & Resultant: Direction	Speed	Average speed	Fastest mile: Speed	Direction #	Date	Percent of possible sunshine	Average sky cover sunrise to sunset	Number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Sleet 1.0 inch or more	Thunderstorms	Heavy fog	Temperatures: Maximum: 90 and above	32 and below	Minimum: 32° and below	0° and below
															Standard time used: CENTRAL																						
JAN	35.0	17.0	26.0	63	24	-11	18	1202	2.00	1.18	26-27	14.4	11.7	26	69	72	63	67	24	5.1	12.3	38	SW	24+	46	6.8	8	4	19	7	2	1	1	0	17	28	3
FEB	28.8	8.6	18.7	52	14	-10	25+	1289	1.11	0.42	1	13.2	3.5	1	67	70	63	62	27	4.8	11.7	39	NW	23	52	6.1	8	8	12	9	5	0	0	0	19	27	7
MAR †	47.6	30.4	39.0	79	30	8	8	802	1.68	0.83	19-20	2.2	1.2	19-20	75	77	63	67	12	1.3	10.4	32	NW	21+	37	7.7	5	5	21	8	1	2	† 3	0	4	20	0
APR	61.4	41.7	51.6	84	16	25	24	404	4.91	1.35	31-1 +	1.1	1.1	23	84	86	65	71	19	3.0	12.5	49	SW	14	44	7.5	4	8	18	14	1	7	2	0	0	3	0
MAY	67.8	45.0	56.4	94	25	30	3	305	1.70	0.39	7	0.0	0.0		73	79	50	52	03	1.0	11.2	50	NW	18	55	6.7	7	7	17	10	0	5	0	2	0	2	0
JUN	81.0	60.8	70.9	91	30+	43	2	10	8.15	5.02	6-7	0.0	0.0		87	91	64	66	18	3.8	8.4	34	SW	8	52	6.9	5	8	17	13	0	12	0	2	0	0	0
JUL	82.5	60.2	71.4	92	26+	48	15+	21	4.15	1.47	21	0.0	0.0		88	93	62	65	25	2.1	6.8	39	NE	26	64	5.7	5	18	8	9	0	7	2	4	0	0	0
AUG	78.5	56.9	67.7	89	2	45	31	33	3.62	1.20	6	0.0	0.0		88	90	64	63	25	1.0	6.8	28	N	2	66	4.9	13	9	9	8	0	6	3	0	0	0	0
SEP	74.2	49.9	62.1	84	20+	32	29	136	4.99	1.77	14-15	0.0	0.0		86	90	57	68	13	1.3	6.7	25	SW	20	60	4.6	16	3	11	7	0	4	5	0	0	1	0
OCT	61.7	42.5	52.1	87	4	28	28	424	6.23	1.76	15	6.6	6.5	26	73	77	59	66	23	2.8	10.9	29	W	20	54	6.4	7	10	14	11	1	3	1	0	0	7	0
NOV	43.2	28.9	36.1	63	11	13	28	860	2.26	1.33	1-2	0.3	0.1	30 +	72	76	61	66	26	4.4	10.0	36	W	14	42	6.5	8	7	15	10	0	0	2	0	2	25	0
DEC	36.1	20.8	28.5	59	21	-17	31	1127	1.56	0.39	17	3.2	1.0	30-31	77	80	71	74	24	2.8	10.3	27	NW	25	30	7.6	4	9	18	14	0	0	3	0	10	22	3
YEAR	58.2	38.6	48.4	94	MAY 25	-17	DEC. 31	6613	42.36	5.02	JUN. 6-7	41.0	11.7	JAN. 26	78	82	62	66	23	2.0	9.8	50	NW	MAY 18	51	6.5	90	96	179	120	10	47	22	8	52	135	13

† DATA CORRECTED AFTER PUBLICATION OF THE MONTHLY ISSUE.
In column 8 of the March issue, change fog to heavy fog on the 11th.

NORMALS, MEANS, AND EXTREMES

Month	Temperature: Normal: Daily maximum	Daily minimum	Monthly	Extremes: Record highest	Year	Record lowest	Year	Normal degree days	Precipitation: Normal total	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year	Snow, Sleet: Mean total	Maximum monthly	Year	Maximum in 24 hrs.	Year	Relative humidity: Mid.	6 AM	Noon	6 PM	Wind: Mean hourly speed	Prevailing direction	Fastest mile: Speed	Direction #	Year	Pct. of possible sunshine	Mean sky cover sunrise to sunset	Mean number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Sleet 1.0 inch or more	Thunderstorms	Heavy fog	Temperatures: Max.: 90° and above	32° and below	Min.: 32° and below	0° and below
																					Standard time used: CENTRAL																							
(a)	(b)	(b)	(b)	8		8		(b)	(b)	38		38		38		35	36		34		7	7	7	7	24	12	39	39		24	25	34	34	34	35	35	34	33	7	7	7	7
J	31.6	13.6	22.6	63	1967	-26	1963	1314	1.61	4.08	1965	0.31	1961+	2.07	1960	7.2	15.1	1959	11.7	1967	72	74	65	69	10.5	WNW	56	SW	1946	48	6.6	8	7	16	9	2	*	3	0	19	29	9
F	34.8	16.6	25.7	64	1965	-16	1963	1100	1.35	2.78	1960	0.17	1933	1.90	1948	5.5	19.3	1960	8.5	1960	73	75	64	66	10.9	WNW	58	NW	1948	48	6.4	7	6	15	8	2	*	2	0	13	27	4
M	45.1	25.6	35.4	79	1967	-19	1960	918	2.39	5.27	1944	0.31	1958	2.38	1944	6.4	17.0	1951	8.2	1952	76	79	64	66	12.0	WNW	66	SW	1954+	49	6.8	6	8	17	11	2	2	2	0	4	22	*
A	61.7	38.3	50.0	87	1962	21	1962+	450	3.17	7.92	1965	0.68	1946	2.80	1959	0.5	6.5	1957	5.6	1957	77	82	58	59	12.2	NW	73	SW	1947	53	6.6	6	9	15	11	*	5	1	0	0	7	0
M	73.1	49.2	61.2	94	1967	26	1966	189	3.80	7.60	1933	0.55	1928	2.60	1954	T	0.3	1935	0.3	1935	76	81	53	52	10.5	E	68	SW	1955	59	6.3	8	8	15	12	0	7	1	2	0	1	0
J	83.2	59.5	71.4	98	1963	41	1966	39	4.37	8.15	1967	1.02	1963	5.02	1967	0.0	0.0		0.0		79	83	53	54	9.0	S	77	SW	1947	64	6.2	7	10	13	10	0	8	1	7	0	0	0
J	88.0	63.2	75.6	100	1966	48	1967	0	3.26	8.78	1963	1.02	1955	5.41	1963	0.0	0.0		0.0		84	86	58	60	7.4	E	65	W	1953	72	5.3	10	12	9	9	0	9	1	7	0	0	0
A	85.7	61.4	73.6	97	1963	44	1963	9	3.53	9.31	1965	0.52	1947	4.60	1951	0.0	0.0		0.0		85	89	57	61	7.1	E	61	SW	1931	70	5.3	10	11	10	8	0	7	2	4	0	0	0
S	78.1	52.5	65.3	98	1960	32	1967+	99	3.25	11.00	1961	0.49	1956	6.29	1961	T	0.1	1942	0.1	1942	84	88	59	69	8.0	S	66	NW	1945	66	5.0	12	8	10	9	0	4	2	2	0	*	0
O	67.1	42.4	54.8	92	1963	19	1962	335	2.46	9.41	1941	0.01	1964	4.89	1954	0.2	6.6	1967	6.5	1967	76	82	53	62	9.0	S	56	SW	1949	62	5.0	13	7	11	7	*	2	2	*	0	6	0
N	48.9	29.5	39.2	77	1961	3	1964	774	1.95	6.47	1934	0.29	1933	2.73	1961	1.4	9.1	1959	5.7	1959	77	81	62	70	10.9	WNW	60	W	1952	45	6.5	8	7	15	7	*	1	1	0	1	19	0
D	35.4	18.3	26.9	64	1962+	-22	1963	1181	1.65	4.81	1942	0.23	1929	3.38	1942	6.6	16.7	1951	8.4	1954	77	79	70	74	10.5	WNW	61	SW	1947	42	6.7	7	6	18	9	2	1	2	0	14	26	5
YR	61.1	39.2	50.1	100	JUL. 1966	-26	JAN. 1963	6408	32.79	11.00	SEP. 1961	0.01	OCT. 1964	6.29	SEP. 1961	27.8	19.3	FEB. 1960	11.7	JAN. 1967	78	82	60	63	9.8	WNW	77	SW	JUN. 1947	58	6.1	102	99	164	110	9	47	20	21	52	136	18

Means and extremes in the above table are from existing locations. Annual extremes have been exceeded at other locations as follows:
Highest temperature 106 in August 1936.

(a) Length of record, years.
(b) Climatological standard normals (1931-1960).
* Less than one half.
\+ Also on earlier dates, months or years.
T Trace, an amount too small to measure.
Below-zero temperatures are preceded by a minus sign.
The prevailing direction for wind in the Normals, Means, and Extremes table is from records through 1963.

\# To 8 compass points only.

Unless otherwise indicated, dimensional units used in this bulletin are: temperature in degrees F.; precipitation, including snowfall, in inches; wind movement in miles per hour; and relative humidity in percent. Degree day totals are the sums of the negative departures of average daily temperatures from 65° F. Sleet was included in snowfall totals beginning with July 1948. Heavy fog reduces visibility to 1/4 mile or less.

Sky cover is expressed in a range of 0 for no clouds or obscuring phenomena to 10 for complete sky cover. The number of clear days is based on average cloudiness 0-3; partly cloudy days 4-7; and cloudy days 8-10 tenths.

& Figures instead of letters in a direction column indicate direction in tens of degrees from true North; i.e., 09 - East, 18 - South, 27 - West, 36 - North, and 00 - Calm. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations. If figures appear in the direction column under "Fastest mile" the corresponding speeds are fastest observed 1-minute values.

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1967

MOLINE, ILLINOIS
QUAD CITY AIRPORT

AVERAGE TEMPERATURE

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1931	29.7	34.8	34.6	50.2	56.6	74.6	73.2	72.1	71.2	57.4	47.4	35.6	53.1
1932	29.4	33.2	28.4	49.3	62.9	72.8	75.4	72.2	62.6	50.0	34.2	24.8	49.6
1933	34.8	23.7	36.4	48.6	61.6	77.6	76.0	71.0	70.2	50.0	37.7	29.0	51.4
1934	30.0	22.2	33.8	50.4	68.4	78.1	79.2	71.7	62.5	56.3	44.3	22.4	51.6
1935	22.8	29.2	41.0	47.2	54.8	66.4	79.1	74.2					
1936								80.1	68.6	53.6	37.6		
1937			34.4	48.9	63.0	70.9	76.4	77.4	65.8	51.6	36.4	24.6	
1938	22.4	34.4	44.8	52.4	61.4	69.0	77.0	76.3	67.5	58.6	40.4	27.0	52.6
1939	29.6	24.4	38.0	46.6	65.8	72.2	75.7	71.0	68.8	54.2	39.6	33.1	51.6
1940	10.0	26.2	32.3	47.8	57.8	72.6	76.9	72.1	64.3	57.0	36.0	31.5	48.7
1941	25.6	22.4	33.6	54.4	65.8	71.6	75.0	74.8	67.5	55.6	41.6	34.1	51.8
1942	22.5	24.6	39.5	55.3	60.8	71.0	75.0	71.7	63.0	53.2	39.7	21.0	49.8
1943	19.6	27.3	32.3	48.2	57.8	73.2	75.9	74.8	61.2	52.2	35.0	26.9	48.7
1944	30.1	27.4	32.6	46.4	66.2	73.6	73.8	73.4	66.2	53.4	42.5	20.2	50.5
1945	18.2	27.7	48.8	51.6	55.6	66.5	72.2	73.2	63.9	51.0	38.6	19.7	48.9
1946	25.6	29.5	48.0	53.5	57.8	70.2	74.8	69.2	64.8	57.8	40.8	31.4	52.0
1947	27.0	20.1	32.5	48.8	56.5	67.4	72.2	81.0	68.2	62.6	33.8	30.2	50.0
1948	17.5	24.4	35.6	55.2	57.8	69.0	75.1	73.6	67.6	51.1	41.3	29.0	49.8
1949	23.0	24.8	37.1	49.4	63.8	73.6	78.0	73.5	59.0	57.0	41.8	31.0	51.0
1950	25.9	24.7	32.9	43.6	62.0	69.6	71.1	68.5	64.1	59.2	33.8	19.1	47.9
1951	20.6	25.6	31.8	47.3	63.3	67.2	72.9	71.5	61.8	54.6	32.6	23.4	47.7
1952	25.1	31.4	33.5	52.1	60.6	75.7	76.4	71.1	64.7	46.6	41.4	30.5	50.7
1953	25.3	30.0	37.3	45.9	60.5	74.3	75.9	74.3	65.4	57.9	42.8	30.0	51.6
1954	23.3	36.3	34.0	53.7	56.1	74.6	76.2	72.0	67.5	53.1	40.7	29.1	51.4
1955	22.0	25.3	36.0	57.0	63.8	67.8	80.5	76.8	66.4	53.6	34.2	24.2	50.6
1956	22.7	26.9	36.1	47.1	62.6	74.0	73.2	73.3	63.4	59.0	38.4	28.9	50.5
1957	16.6	32.5	37.0	50.4	59.6	70.4	76.7	73.2	61.9	49.8	38.1	32.8	49.9
1958	22.2	16.7	35.7	50.5	62.2	66.3	71.3	73.5	64.4	56.0	42.0	22.2	48.6
1959	15.7	25.7	36.9	49.4	65.3	72.0	73.2	77.2	66.3	49.9	31.4	34.7	49.8
1960	25.7	22.3	19.9	53.4	58.9	68.5	72.8	73.8	68.6	53.8	41.5	23.7	48.6
1961	21.1	30.7	39.3	44.3	58.1	71.9	74.2	73.9	66.1	55.4	40.8	23.0	49.9
1962	16.2	23.7	32.6	49.3	67.9	70.6	71.6	72.9	61.7	55.2	39.0	23.2	48.7
1963	9.7	17.9	41.1	52.9	60.0	73.5	74.8	70.8	64.9	64.4	43.1	13.8	48.9
1964	28.4	27.0	34.4	51.5	66.3	72.3	76.6	70.8	65.6	50.7	44.2	24.8	51.1
1965	21.4	25.7	26.9	49.2	65.9	69.6	74.9	71.1	63.5	53.6	40.7	34.5	49.8
1966	14.3	24.8	39.2	47.0	56.3	70.5	77.9	70.6	62.9	52.5	41.7	28.1	48.8
1967	26.0	18.7	39.0	51.6	56.4	70.9	71.4	67.7	62.1	52.1	36.1	28.5	48.4
RECORD													
MEAN	22.6	26.6	35.8	50.1	61.1	71.3	75.2	73.2	65.1	54.3	39.1	27.0	50.1
MAX	31.2	35.3	44.9	60.8	72.1	82.2	86.4	84.3	76.8	65.9	48.3	35.1	60.3
MIN	13.9	17.9	26.7	39.3	50.1	60.4	64.0	62.0	53.4	42.6	29.8	18.9	39.9

TOTAL DEGREE DAYS

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1942-43							1407	1056	1016	506	267	30	
1943-44	1	3	164	400	898	1180	1082	1092	1007	555	137	26	6545
1944-45	2	8	77	362	674	1391	1452	1044	505	408	312	81	6316
1945-46	13	9	139	437	795	1402	1223	993	526	357	233	59	6186
1946-47	0	19	99	240	730	1043	1176	1253	1011	487	276	59	6393
1947-48	10	0	117	148	932	1078	1471	1177	914	328	232	17	6424
1948-49	0	4	69	431	709	1114	1302	1126	868	471	127	6	6227
1949-50	0	3	204	289	695	1055	1204	1126	989	636	129	34	6364
1950-51	4	24	82	222	930	1416	1372	1096	1020	543	132	37	6878
1951-52	3	4	130	350	965	1283	1232	967	970	399	195	6	6504
1952-53	0	9	97	565	702	1062	1224	974	850	570	204	2	6259
1953-54	0	1	95	266	660	1078	1284	796	953	355	291	39	5818
1954-55	0	2	58	395	722	1108	1329	1107	891	236	100	44	5992
1955-56	0	0	71	356	914	1259	1305	1096	890	537	155	26	6609
1956-57	0	13	109	189	790	1109	1492	902	861	448	191	23	6127
1957-58	0	2	136	467	800	989	1319	1345	898	435	125	41	6557
1958-59	4	21	93	289	685	1319	1523	1096	861	462	114	8	6475
1959-60	4	1	100	462	1002	932	1212	1229	1392	376	203	13	6926
1960-61	2	1	55	348	700	1277	1355	954	789	614	242	12	6349
1961-62	1	0	121	309	722	1297	1510	1150	999	481	78	22	6690
1962-63	8	1	149	342	774	1292	1717	1315	734	370	186	15	6903
1963-64	0	16	83	108	653	1585	1129	1097	942	405	71	20	6109
1964-65	3	24	100	437	624	1241	1344	1096	1174	471	86	3	6603
1965-66	0	21	115	363	722	939	1568	1119	794	533	287	31	6492
1966-67	0	6	116	386	695	1137	1202	1289	802	404	305	10	6352
1967-68	21	33	136	424	860	1127							

TOTAL PRECIPITATION

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1931	0.56	0.19	1.98	2.43	3.17	2.61	1.62	1.42	4.07	3.01	4.30	2.28	27.64
1932	0.95	0.54	1.81	1.32	4.53	4.80	3.71	7.12	0.86	3.13	1.11	1.98	31.86
1933	2.10	0.17	3.47	1.81	7.60	5.19	1.86	1.87	2.37	1.70	0.29	1.36	29.79
1934	0.75	0.66	1.15	0.96	0.98	4.21	3.98	4.51	8.88	1.34	6.47	1.05	34.94
1935	1.49	1.26	2.83	2.04	6.16	5.74	1.73	2.95					
1936									10.35	1.47	1.53		
1937			1.13	3.69	4.15	2.35	3.56	1.34	1.22	2.11	0.79	0.91	
1938	2.54	1.68	2.94	3.24	6.78	4.63	5.81	3.49	6.84	1.52	2.45	0.88	42.80
1939	1.67	1.70	2.68	3.56	2.28	3.99	2.45	5.59	0.94	2.96	0.94	0.30	29.06
1940	1.26	0.53	1.57	3.01	1.37	1.19	2.34	4.88	1.54	2.02	1.57	1.57	22.85
1941	2.86	0.53	1.38	4.49	3.49	6.46	1.67	1.66	5.45	9.41	1.25	1.43	40.08
1942	0.78	1.08	1.39	0.92	4.06	5.73	4.18	2.80	2.95	0.92	2.99	4.81	32.61
1943	1.36	1.84	1.49	5.61	6.38	4.55	2.10	4.31	1.23	3.24	1.77	0.41	34.29
1944	0.60	1.99	5.27	5.55	4.60	6.19	2.40	2.88	1.60	1.06	2.98	1.54	36.66
1945	0.44	0.90	3.36	3.88	5.07	2.52	1.39	3.86	4.74	1.09	1.71	1.69	30.65
1946	2.53	0.28	4.64	0.68	4.10	6.42	1.47	3.91	3.47	1.65	2.49	1.43	33.07
1947	2.08	0.23	2.10	7.36	3.70	5.99	4.08	0.52	5.13	0.88	1.92	1.64	35.63
1948	0.84	2.35	3.46	1.67	2.11	2.91	8.27	2.83	3.66	1.81	2.23	2.21	34.35
1949	3.28	1.78	2.76	1.10	1.82	5.45	3.40	7.12	1.96	2.27	0.71	2.91	34.56
1950	3.56	1.76	1.09	5.87	3.01	5.11	4.41	1.87	3.85	0.61	0.73	1.01	32.88
1951	1.05	2.56	5.06	3.60	5.90	6.65	5.60	8.00	3.47	3.75	1.68	1.28	48.60
1952	1.57	0.78	3.88	1.17	2.22	7.13	2.66	3.50	0.77	0.04	2.99	1.93	28.64
1953	1.04	2.72	2.68	1.73	3.18	3.43	4.88	1.05	1.79	1.00	1.07	1.90	26.47
1954	0.34	1.69	3.13	4.58	3.58	5.10	1.98	6.67	1.59	7.43	0.75	2.02	38.86
1955	2.03	1.88	1.20	5.33	2.30	3.65	1.02	2.44	2.40	2.70	0.60	0.54	26.09
1956	0.31	1.39	0.54	2.15	2.27	1.55	4.09	3.34	0.49	0.40	2.43	1.24	20.20
1957	1.33	1.57	2.90	3.49	4.11	2.52	4.47	3.17	1.16	2.00	2.38	3.82	32.92
1958	1.26	0.49	0.31	2.53	3.96	3.77	4.62	1.09	3.00	1.75	1.17	0.50	24.45
1959	1.41	1.77	3.06	4.75	5.31	3.62	4.48	3.90	4.29	5.59	1.50	2.42	42.10
1960	3.43	2.78	1.28	4.89	3.98	5.40	3.40	3.97	3.42	4.91	1.11	0.88	39.45
1961	0.31	1.20	4.48	2.19	1.98	3.69	7.63	2.37	11.00	4.53	4.94	1.58	45.90
1962	2.08	1.84	2.42	2.44	6.10	1.48	6.73	1.95	2.90	4.15	1.21	0.55	33.85
1963	0.91	0.37	3.29	4.24	2.36	1.02	8.78	4.02	2.38	0.63	1.84	0.94	30.78
1964	1.59	0.73	4.02	6.37	2.68	3.89	5.31	2.41	3.99	0.01	3.40	1.27	35.67
1965	4.08	0.97	2.52	7.92	4.04	2.07	4.78	9.31	8.27	0.88	1.93	2.82	49.59
1966	2.01	0.89	0.85	3.96	6.39	4.25	7.74	0.77	2.80	4.38	1.12	2.52	37.68
1967	2.00	1.11	1.68	4.91	1.70	8.15	4.15	3.62	4.99	6.23	2.26	1.56	42.36
RECORD													
MEAN	1.59	1.31	2.45	3.57	3.71	4.29	3.97	3.51	3.60	2.69	2.07	1.55	34.31

TOTAL SNOWFALL

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1930-31	0.0	0.0	0.0	0.0	0.0	0.0	4.5	T	9.5	T	0.0	0.0	14.0
1931-32	0.0	0.0	0.0	0.0	0.2	7.6	2.0	5.5	8.2	0.0	0.0	0.0	23.5
1932-33	0.0	0.0	0.0	0.0	1.1	3.5	2.8	2.1	4.1	0.8	0.0	0.0	14.4
1933-34	0.0	0.0	0.0	T	0.3	3.5	2.6	6.4	3.6	T	0.0	0.0	16.4
1934-35	0.0	0.0	0.0	0.0	T	9.3	1.9	2.8	8.9	0.2	0.3	0.0	23.4
1935-36	0.0	0.0	0.0	0.0								0.0	
1936-37	0.0	0.0	0.0	T	T				5.0	T	0.0	0.0	
1937-38	0.0	0.0	0.0	0.0	4.0	5.7	3.7	1.7	0.6	0.8	0.0	0.0	16.5
1938-39	0.0	0.0	0.0	0.1	0.4	3.1	11.8	6.1	2.5	T	0.0	0.0	24.0
1939-40	0.0	0.0	0.0	T	0.0	T	12.6	3.4	3.1	0.0	0.0	0.0	19.1
1940-41	0.0	0.0	0.0	0.0	2.3	1.4	14.5	3.9	11.5	0.0	0.0	0.0	33.6
1941-42	0.0	0.0	0.0	0.0	1.3	4.4	4.8	6.1	0.8	0.0	0.0	0.0	17.4
1942-43	0.0	0.0	0.1	T	1.6	7.6	11.1	2.5	5.3	T	0.0	0.0	28.2
1943-44	0.0	0.0	0.0	0.0	T	0.4	T	12.6	4.3	T	T	0.0	17.3
1944-45	0.0	0.0	0.0	0.0	0.3	13.9	5.8	4.3	0.7	T	T	0.0	25.0
1945-46	0.0	0.0	0.0	0.0	1.0	11.4	2.5	4.4	2.8	T	0.0	0.0	22.1
1946-47	0.0	0.0	0.0	T	0.0	5.3	8.5	4.3	7.2	T	0.0	0.0	25.3
1947-48	0.0	0.0	0.0	0.0	7.7	1.8	3.8	3.0	8.0	0.0	0.0	0.0	24.3
1948-49	0.0	0.0	0.0	0.0	T	6.2	5.3	2.5	0.9	1.1	0.0	0.0	16.0
1949-50	0.0	0.0	0.0	0.0	0.5	2.3	1.7	7.9	2.5	0.4	0.0	0.0	15.3
1950-51	0.0	0.0	0.0	0.0	2.1	7.3	7.1	4.9	17.0	1.4	0.0	0.0	39.8
1951-52	0.0	0.0	0.0	T	3.4	16.7	4.7	5.9	15.2	T	0.0	0.0	45.9
1952-53	0.0	0.0	0.0	0.0	T	2.5	12.1	6.2	7.1	0.4	0.0	0.0	28.3
1953-54	0.0	0.0	0.0	0.0	1.4	7.8	1.4	4.9	2.2	0.0	T	0.0	17.7
1954-55	0.0	0.0	0.0	T	3.7	16.2	11.2	6.1	8.8	0.0	0.0	0.0	46.0
1955-56	0.0	0.0	0.0	T	2.0	2.9	2.2	7.5	0.7	0.3	0.0	0.0	15.6
1956-57	0.0	0.0	0.0	0.0	2.1	6.5	11.8	0.7	6.9	6.5	0.0	0.0	34.5
1957-58	0.0	0.0	0.0	0.0	0.3	6.4	14.0	1.7	2.0	T	0.0	0.0	24.4
1958-59	0.0	0.0	0.0	0.0	0.9	8.1	15.1	3.6	13.9	1.7	0.0	0.0	43.3
1959-60	0.0	0.0	0.0	T	9.1	9.9	8.5	19.3	14.7	T	T	0.0	61.5
1960-61	0.0	0.0	0.0	0.0	T	5.5	3.4	2.5	2.4	2.5	0.0	0.0	16.3
1961-62	0.0	0.0	0.0	0.0	T	13.6	11.2	15.8	7.1	0.2	0.0	0.0	47.9
1962-63	0.0	0.0	0.0	0.2	T	3.1	14.7	5.8	7.3	0.0	0.0	0.0	31.1
1963-64	0.0	0.0	0.0	0.0	T	9.7	5.3	5.5	13.9	T	0.0	0.0	34.4
1964-65	0.0	0.0	0.0	0.0	2.1	11.7	10.2	7.4	16.2	0.0	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.3	5.7	6.0	0.8	0.7	0.1	T	0.0	13.6
1966-67	0.0	0.0	0.0	0.0	T	7.2	14.4	13.2	2.2	1.1	0.0	0.0	38.1
1967-68	0.0	0.0	0.0	6.6	0.3	3.2							

Record mean values above (not adjusted for instrument location changes listed in the Station Location table) are means for the period beginning in 1930 for temperature and 1927 for precipitation.

A horizontal line drawn on the above tables indicates a break in the data sequence due to a change in instrument exposure or a station move (see Station Location table).

STATION LOCATION

MOLINE, ILLINOIS
QUAD CITY AIRPORT

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Elevation above Ground: Extreme thermometers	Elevation above Ground: Psychrometer	Elevation above Ground: Telepsychrometer	Elevation above Ground: Tipping bucket rain gage	Elevation above Ground: Weighing rain gage	Elevation above Ground: 8" rain gage	Elevation above Ground: Hygrothermometer	Elevation above Sea level: Pyranometer	Remarks
NE Corner, Moline AP 4.5 mi. S of Moline P.O.	10- 1-26	12-27-39		41° 27'	90° 31'	589	53	3	3				3			
Administration Building Quad City Airport	12-27-39	4- 3-61	1200 ft. W	41° 27'	90° 31'	g582	a25	b36	c36	d5		e5	15	f4		a - 54 ft. for autographic record and 62 ft. for direct reading until moved to field 11-13-58. b - 5 ft. to 5-31-55 and 6-7-56 to 4-16-58. c - 5 ft. to 12-1-54 and 6-7-56 to 4-16-58. d - Added 6-7-56, removed 3-1-60. e - 4 ft. to 4-16-58. f - Commissioned 3-1-60. g - 589 ft. to 3-1-60.
Terminal Building Quad City Airport	4- 4-61	Present	200 ft. SE	41° 27'	90° 31'	582	25	17	17			h16	15	4		h - 5 ft. to 7-22-63.

Requests for additional information should be directed to the Weather Bureau Office for which this summary was issued.

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LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA, 1966

MOLINE, ILLINOIS

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NARRATIVE CLIMATOLOGICAL SUMMARY

This area has a temperate continental climate, with a wide temperature range throughout the year. There are some intensely hot, usually humid, periods in summer and severely cold periods in winter. Maxima of 90° or higher have occurred as frequently as on 53 days (1936), but in 1882 there were none. Zero or lower readings have occurred during every winter of record.

Freezing temperatures have occurred as late in spring as May 22 and as early in autumn as September 18. Precipitation usually is well distributed throughout the year. Normally the greatest amounts fall during the 180-day average crop growing season (April 19-October 15, inclusive). Substantial weather changes frequently occur at 3-or 4-day intervals, as a direct result of proximity to some of the most important storm tracks.

The locality is in the heart of the Corn Belt. Agricultural crops include many important staple products in addition to corn. Cattle, hogs, horses, and poultry produced in Iowa and Illinois rank high in the nation. Close to the Mississippi River there is large scale truck gardening and considerable dairying. Field production of grains and livestock attains greater development farther away from the large streams, where the countryside is rolling prairie. Damaging drouths are not common. This, together with the variety of agricultural products, has led to designating the section as the "Bread Basket" or the "Garden Spot" of America.

The climate is favorable for many industries as evidenced by the large number and variety of manufacturing and other enterprises which have located and developed in the community. Among these are some of the world's largest producers of agricultural machinery.

Records began in Davenport, Iowa, in May 1871, and have been continuous to date. At the Quad-City Airport, Moline, Illinois, records began in October 1926, but are not complete in the years 1935. 1936, and 1937. For a summary of data from Lock & Dam No. 15, Davenport, Iowa, please refer to IOWA CLIMATOLOGICAL DATA.

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ROBERT M. WHITE, Administrator
ENVIRONMENTAL DATA SERVICE

LATITUDE 41° 27' N
LONGITUDE 90° 31' W
ELEVATION (ground) 582 Feet

METEOROLOGICAL DATA FOR THE CURRENT YEAR

MOLINE, ILLINOIS
QUAD CITY AIRPORT
1966

Month	Temperature: Averages: Daily maximum	Daily minimum	Monthly	Extremes: Highest	Date	Lowest	Date	Degree days	Precipitation: Total	Greatest in 24 hrs.	Date	Snow, Sleet: Total	Greatest in 24 hrs.	Date	Relative humidity: Midnight CST	6:00 A.M. CST	Noon CST	6:00 P.M. CST	Wind & Resultant: Direction	Speed	Average speed	Fastest mile #: Speed	Direction	Date	Percent of possible sunshine	Average sky cover sunrise to sunset	Number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Sleet 1.0 inch or more	Thunderstorms	Heavy fog	Temperatures: Maximum: 90° and above	32° and below	Minimum: 32° and below	0° and below
JAN	22.7	5.8	14.3	47	9	-19	29	1568	2.01	1.43	12	6.0	3.5	12	72	72	66	69	29	3.7	10.2	31	NW	10+	64	5.9	9	10	12	10	1	1	1	0	24	31	14
FEB †	33.5	16.1	24.8	52	9+	0	5+	1119	0.89	0.55	9	0.8	0.3	† 17 +	72	76	63	64	32	1.0	9.6	33	NW	16	54	6.1	8	8	12	6	0	0	4	0	14	26	2
MAR	49.6	28.7	39.2	75	17	14	7	794	0.85	0.41	22-23	0.7	0.4	5	75	74	58	61	23	3.8	11.9	47	NW	31	39	7.5	3	6	22	9	0	3	4	0	4	20	0
APR	57.2	36.7	47.0	75	26+	22	10	533	3.96	0.97	19-20	0.1	0.1	5	76	80	57	58	35	1.4	10.6	48	SW	19	43	7.3	3	9	18	16	0	5	3	0	0	6	0
MAY	68.0	44.5	56.3	88	27	26	10	287	6.39	2.29	11	T	T	11	76	79	52	52	10	0.7	9.6	63	NE	7	66	4.3	17	6	8	11	0	5	2	0	0	3	0
JUN	82.0	58.9	70.5	94	30+	41	10	31	4.25	1.42	12-13	0.0	0.0		78	80	54	53	20	2.8	7.9	37	NW	12	72	5.9	10	6	14	9	0	8	2	7	0	0	0
JUL	89.8	66.0	77.9	100	18	51	21	0	7.74	3.13	26	0.0	0.0		75	77	52	53	15	1.2	7.0	42	N	28	78	4.7	13	12	6	10	0	5	0	14	0	0	0
AUG	82.8	58.4	70.6	92	15	50	24	6	0.77	0.20	10	0.0	0.0		84	90	53	59	25	2.4	7.0	23	NW	1	79	4.7	14	9	8	5	0	3	1	3	0	0	0
SEP	74.5	51.2	62.9	93	2	38	26	116	2.80	1.46	14	0.0	0.0		85	92	52	63	33	1.2	6.3	28	NW	29	66	5.6	12	4	14	8	0	2	2	2	0	0	0
OCT	65.1	39.9	52.5	79	9+	24	25	386	4.38	2.14	12-13	0.0	0.0		71	80	46	55	23	5.4	9.3	40	NW	10	70	4.2	13	11	7	6	0	2	0	0	0	8	0
NOV	50.4	32.9	41.7	74	7	18	3	695	1.12	0.47	24	T	T	27 +	75	80	61	69	25	3.9	11.0	35	NW	28	38	6.7	5	12	13	7	0	5	1	0	0	20	0
DEC	35.0	21.2	28.1	60	8	3	3	1137	2.52	0.81	27-28	7.2	5.6	27-28	79	81	70	75	27	2.7	9.3	28	SW	28	41	6.9	6	9	16	10	2	3	2	0	14	27	0
YEAR	59.2	38.4	48.8	100	JUL. 18	-19	JAN. 29	6672	37.68	3.13	JUL. 26	14.8	5.6	DEC. 27-28	77	80	57	61	25	1.8	9.1	63	NE	MAY 7	61	5.8	113	102	150	107	3	42	22	26	56	141	16

† DATA CORRECTED AFTER PUBLICATION OF THE MONTHLY ISSUE.

NORMALS, MEANS, AND EXTREMES

Month	Temperature: Normal: Daily maximum	Daily minimum	Monthly	Extremes: Record highest	Year	Record lowest	Year	Normal degree days	Precipitation: Normal total	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year	Snow, Sleet: Mean total	Maximum monthly	Year	Maximum in 24 hrs.	Year	Relative humidity: Midnight CST	6:00 A.M. CST	Noon CST	6:00 P.M. CST	Wind: Mean hourly speed	Prevailing direction	Fastest mile #: Speed	Direction	Year	Pct. of possible sunshine	Mean sky cover sunrise to sunset	Mean number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Sleet 1.0 inch or more	Thunderstorms	Heavy fog	Temperatures: Max.: 90° and above	32° and below	Min.: 32° and below	0° and below
(a)	(b)	(b)	(b)	7		7		(b)	(b)	37		37		37		34	35		33		6	6	6	6	23	12	38	38		23	24	33	33	33	34	34	33	32	6	6	6	6
J	31.6	13.6	22.6	60	1965	-26	1963	1314	1.61	4.08	1965	0.31	1961+	2.07	1960	7.0	15.1	1959	9.6	1941	73	75	65	69	10.4	WNW	56	SW	1946	48	6.6	8	7	16	9	2	*	3	0	19	29	10
F	34.8	16.6	25.7	64	1965	-16	1963	1100	1.35	2.78	1960	0.17	1933	1.90	1948	5.2	19.3	1960	8.5	1960	74	76	65	67	10.9	WNW	58	NW	1948	47	6.5	7	6	15	8	2	*	2	0	12	27	3
M	45.1	25.6	35.4	77	1963	-19	1960	918	2.39	5.27	1944	0.31	1958	2.38	1944	6.5	17.0	1951	8.2	1952	77	79	64	66	12.1	WNW	66	SW	1954+	50	6.8	7	8	16	11	2	2	2	0	5	22	*
A	61.7	38.3	50.0	87	1962	21	1962+	450	3.17	7.92	1965	0.68	1946	2.80	1959	0.5	6.5	1957	5.6	1957	76	81	56	57	12.2	NW	73	SW	1947	53	6.6	6	9	15	11	*	4	1	0	0	7	0
M	73.1	49.2	61.2	93	1962	26	1966	189	3.80	7.60	1933	0.55	1928	2.60	1954	T	0.3	1935	0.3	1935	76	82	53	53	10.5	E	68	SW	1955	59	6.3	8	8	15	12	0	7	1	2	0	1	0
J	83.2	59.5	71.4	98	1963	41	1966	39	4.37	7.25	1930	1.02	1963	3.43	1933	0.0	0.0		0.0		78	82	51	52	9.0	S	77	SW	1947	64	6.1	7	10	13	10	0	8	1	8	0	0	0
J	88.0	63.2	75.6	100	1966	49	1962	0	3.26	8.78	1963	1.02	1955	5.41	1963	0.0	0.0		0.0		83	85	57	59	7.4	E	65	W	1953	72	5.3	10	12	9	9	0	9	1	7	0	0	0
A	85.7	61.4	73.6	97	1963	44	1963	9	3.53	9.31	1965	0.52	1947	4.60	1951	0.0	0.0		0.0		85	89	56	61	7.1	E	61	SW	1931	71	5.3	10	11	10	8	0	7	2	5	0	0	0
S	78.1	52.5	65.3	98	1960	32	1962	99	3.25	11.00	1961	0.49	1956	6.29	1961	T	0.1	1942	0.1	1942	84	88	59	69	8.1	S	66	NW	1945	67	5.1	12	8	10	9	0	4	2	2	0	*	0
O	67.1	42.4	54.8	92	1963	19	1962	335	2.46	9.41	1941	0.01	1964	4.89	1954	T	0.2	1962	0.2	1962	77	83	52	62	8.9	S	56	SW	1949	63	4.9	13	7	11	7	0	2	2	*	0	6	0
N	48.9	29.5	39.2	77	1961	3	1964	774	1.95	6.47	1934	0.29	1933	2.73	1961	1.4	9.1	1959	5.7	1959	78	82	62	71	10.9	WNW	60	W	1952	45	6.5	8	7	15	7	*	2	1	0	1	18	0
D	35.4	18.3	26.9	64	1962+	-22	1963	1181	1.65	4.81	1942	0.23	1929	3.38	1942	6.7	16.7	1951	8.4	1954	77	79	70	74	10.5	WNW	61	SW	1947	42	6.7	7	6	18	8	2	1	2	0	15	27	5
YR	61.1	39.2	50.1	100	JUL. 1966	-26	JAN. 1963	6408	32.79	11.00	SEP. 1961	0.01	OCT. 1964	6.29	SEP. 1961	27.3	19.3	FEB. 1960	9.6	JAN. 1941	78	82	59	63	9.8	WNW	77	SW	JUN. 1947	58	6.1	103	99	163	110	9	47	20	24	52	137	19

Means and extremes in the above table are from existing locations. Annual extremes have been exceeded at other locations as follows:
Highest temperature 106 in August 1936.

(a) Length of record, years.
(b) Climatological standard normals (1931-1960).
* Less than one half.
\+ Also on earlier dates, months or years.
T Trace, an amount too small to measure.
Below-zero temperatures are preceded by a minus sign.
The prevailing direction for wind in the Normals, Means, and Extremes table is from records through 1963.

\# To 8 compass points only.

Unless otherwise indicated, dimensional units used in this bulletin are: temperature in degrees F.; precipitation, including snowfall, in inches; wind movement in miles per hour; and relative humidity in percent. Degree day totals are the sums of the negative departures of average daily temperatures from 65° F. Sleet was included in snowfall totals beginning with July 1948. Heavy fog reduces visibility to 1/4 mile or less.

Sky cover is expressed in a range of 0 for no clouds or obscuring phenomena to 10 for complete sky cover. The number of clear days is based on average cloudiness 0-3; partly cloudy days 4-7; and cloudy days 8-10 tenths.

& Figures instead of letters in a direction column indicate direction in tens of degrees from true North; i.e., 09 - East, 18 - South, 27 - West, 36 - North, and 00 - Calm. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations. If figures appear in the direction column under "Fastest mile" the corresponding speeds are fastest observed 1-minute values.

MOLINE, ILLINOIS
QUAD CITY AIRPORT

AVERAGE TEMPERATURE

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1931	29.7	34.8	34.6	50.2	56.6	74.6	73.2	72.1	71.2	57.4	47.4	35.6	53.1
1932	29.4	33.2	28.4	49.3	62.9	72.8	75.4	72.2	62.6	50.0	34.2	24.8	49.6
1933	34.8	23.7	36.4	48.6	61.6	77.6	76.0	71.0	70.2	50.0	37.7	29.0	51.4
1934	30.0	22.2	33.8	50.4	68.4	78.1	79.2	71.7	62.5	56.3	44.3	22.4	51.6
1935	22.8	29.2	41.0	47.2	54.8	66.4	79.1	74.2					
1936								80.1	68.6	53.6	37.6		
1937			34.4	48.9	63.0	70.9	76.4	77.4	65.8	51.6	36.4	24.6	
1938	22.4	34.4	44.8	52.4	61.4	69.0	77.0	76.3	67.5	58.6	40.4	27.0	52.6
1939	29.6	24.4	38.0	46.6	65.8	72.2	75.7	71.0	68.8	54.2	39.6	33.1	51.6
1940	10.0	26.2	32.3	47.8	57.8	72.6	76.9	72.1	64.3	57.0	36.0	31.5	48.7
1941	25.6	22.4	33.6	54.4	65.8	71.6	75.0	74.8	67.5	55.6	41.6	34.1	51.8
1942	22.5	24.6	39.5	55.3	60.8	71.0	75.0	71.7	63.0	53.2	39.7	21.0	49.8
1943	19.6	27.3	32.3	48.2	57.8	73.2	75.9	74.8	61.2	52.2	35.0	26.9	48.7
1944	30.1	27.4	32.6	46.4	66.2	73.6	73.8	73.4	66.2	53.4	42.5	20.2	50.5
1945	18.2	27.7	48.8	51.6	55.6	66.5	72.2	73.2	63.9	51.0	38.6	19.7	48.9
1946	25.6	29.5	48.0	53.5	57.8	70.2	74.8	69.2	64.8	57.8	40.8	31.4	52.0
1947	27.0	20.1	32.5	48.8	56.5	67.4	72.2	81.0	68.2	62.6	33.8	30.2	50.9
1948	17.5	24.4	35.6	55.2	57.8	69.0	75.1	73.6	67.6	51.1	41.3	29.0	49.8
1949	23.0	24.8	37.1	49.4	63.8	73.6	78.0	73.5	59.0	57.0	41.8	31.0	51.0
1950	25.9	24.7	32.9	43.6	62.0	69.6	71.1	68.5	64.1	59.2	33.8	19.1	47.9
1951	20.6	25.6	31.8	47.3	63.3	67.2	72.9	71.5	61.8	54.6	32.6	23.4	47.7
1952	25.1	31.4	33.5	52.1	60.6	75.7	76.4	71.1	64.7	46.6	41.4	30.5	50.7
1953	25.3	30.0	37.3	45.9	60.5	74.3	75.9	74.3	65.4	57.9	42.8	30.0	51.6
1954	23.3	36.3	34.0	53.7	56.1	74.6	76.2	72.0	67.5	53.1	40.7	29.1	51.4
1955	22.0	25.3	36.0	57.0	63.8	67.8	80.5	76.8	66.4	53.6	34.2	24.2	50.6
1956	22.7	26.9	36.1	47.1	62.6	74.0	73.2	73.3	63.4	59.0	38.4	28.9	50.5
1957	16.6	32.5	37.0	50.4	59.6	70.4	76.7	73.2	61.9	49.8	38.1	32.8	49.9
1958	22.2	16.7	35.7	50.5	62.2	66.3	71.3	73.5	64.4	56.0	42.0	22.2	48.6
1959	15.7	25.7	36.9	49.4	65.3	72.0	73.2	77.2	66.3	49.9	31.4	34.7	49.8
1960	25.7	22.3	19.9	53.4	58.9	68.5	72.8	73.8	68.6	53.8	41.5	23.7	48.6
1961	21.1	30.7	39.3	44.3	58.1	71.9	74.2	73.9	66.1	55.4	40.8	23.0	49.9
1962	16.2	23.7	32.6	49.3	67.9	70.6	71.6	72.9	61.7	55.2	39.0	23.2	48.7
1963	9.7	17.9	41.1	52.9	60.0	73.5	74.8	70.8	64.9	64.4	43.1	13.8	48.9
1964	28.4	27.0	34.4	51.5	66.3	72.3	76.6	70.8	65.6	50.7	44.2	24.8	51.1
1965	21.4	25.7	26.9	49.2	65.9	69.6	74.9	71.1	63.5	53.6	40.7	34.5	49.8
1966	14.3	24.8	39.2	47.0	56.3	70.5	77.9	70.6	62.9	52.5	41.7	28.1	48.8
RECORD MEAN	22.5	26.8	35.8	50.0	61.3	71.3	75.3	73.3	65.2	54.3	39.2	27.0	50.2
MAX	31.1	35.5	44.9	60.7	72.3	82.2	86.5	84.5	76.9	66.0	48.5	35.0	60.3
MIN	13.9	18.1	26.6	39.3	50.2	60.4	64.1	62.1	53.5	42.6	29.9	18.9	40.0

TOTAL DEGREE DAYS

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1942-43							1407	1056	1016	506	267	30	
1943-44	1	3	164	400	898	1180	1082	1092	1007	555	137	26	6545
1944-45	2	8	77	362	674	1391	1452	1044	505	408	312	81	6316
1945-46	13	9	139	437	795	1402	1223	993	526	357	233	59	6186
1946-47	0	19	99	240	730	1043	1176	1253	1011	487	276	59	6393
1947-48	10	0	117	148	932	1078	1471	1177	914	328	232	17	6424
1948-49	0	4	69	431	709	1114	1302	1126	868	471	127	6	6227
1949-50	0	3	204	289	695	1055	1204	1126	989	636	129	34	6364
1950-51	4	24	82	222	930	1416	1372	1096	1020	543	132	37	6878
1951-52	3	4	130	350	965	1283	1232	967	970	399	195	6	6504
1952-53	0	9	97	565	702	1062	1224	974	850	570	204	2	6259
1953-54	0	1	95	266	660	1078	1284	796	953	355	291	39	5818
1954-55	0	2	58	395	722	1108	1329	1107	891	236	100	44	5992
1955-56	0	0	71	356	914	1259	1305	1096	890	537	155	26	6609
1956-57	0	13	109	189	790	1109	1492	902	861	448	191	23	6127
1957-58	0	2	136	467	800	989	1319	1345	898	435	125	41	6557
1958-59	4	21	93	289	685	1319	1523	1096	861	462	114	8	6475
1959-60	4	1	100	462	1002	932	1212	1229	1392	376	203	13	6926
1960-61	2	1	55	348	700	1277	1355	954	789	614	242	12	6349
1961-62	1	0	121	309	722	1297	1510	1150	999	481	78	22	6690
1962-63	8	1	149	342	774	1292	1717	1315	734	370	186	15	6903
1963-64	0	16	83	108	653	1585	1129	1097	942	405	71	20	6109
1964-65	3	24	100	437	624	1241	1344	1096	1174	471	86	3	6603
1965-66	0	21	115	363	722	939	1568	1119	794	533	287	31	6492
1966-67	0	6	116	386	695	1137							

TOTAL PRECIPITATION

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1931	0.56	0.19	1.98	2.43	3.17	2.61	1.62	1.42	4.07	3.01	4.30	2.28	27.64
1932	0.95	0.54	1.81	1.32	4.53	4.80	3.71	7.12	0.86	3.13	1.11	1.98	31.86
1933	2.10	0.17	3.47	1.81	7.60	5.19	1.86	1.87	2.37	1.70	0.29	1.36	29.79
1934	0.75	0.66	1.15	0.96	0.98	4.21	3.98	4.51	8.88	1.34	6.47	1.05	34.94
1935	1.49	1.26	2.83	2.04	6.16	5.74	1.73	2.95					
1936									10.35	1.47	1.53		
1937			1.13	3.69	4.15	2.35	3.56	1.34	1.22	2.11	0.79	0.91	
1938	2.54	1.68	2.94	3.24	6.78	4.63	5.81	3.49	6.84	1.52	2.45	0.88	42.80
1939	1.67	1.70	2.68	3.56	2.28	3.99	2.45	5.59	0.94	2.96	0.94	0.30	29.06
1940	1.26	0.53	1.57	3.01	1.37	1.19	2.34	4.88	1.54	2.02	1.57	1.57	22.85
1941	2.86	0.53	1.38	4.49	3.49	6.46	1.67	1.66	5.45	9.41	1.25	1.43	40.08
1942	0.78	1.08	1.39	0.92	4.06	5.73	4.18	2.80	2.95	0.92	2.99	4.81	32.61
1943	1.36	1.84	1.49	5.61	6.38	4.55	2.10	4.31	1.23	3.24	1.77	0.41	34.29
1944	0.60	1.99	5.27	5.55	4.60	6.19	2.40	2.88	1.60	1.06	2.98	1.54	36.66
1945	0.44	0.90	3.36	3.88	5.07	2.52	1.39	3.86	4.74	1.09	1.71	1.69	30.65
1946	2.53	0.28	4.64	0.68	4.10	6.42	1.47	3.91	3.47	1.65	2.49	1.43	33.07
1947	2.08	0.23	2.10	7.36	3.70	5.99	4.08	0.52	5.13	0.88	1.92	1.64	35.63
1948	0.84	2.35	3.46	1.67	2.11	2.91	8.27	2.83	3.66	1.81	2.23	2.21	34.35
1949	3.28	1.78	2.76	1.10	1.82	5.45	3.40	7.12	1.96	2.27	0.71	2.91	34.56
1950	3.56	1.76	1.09	5.87	3.01	5.11	4.41	1.87	3.85	0.61	0.73	1.01	32.88
1951	1.05	2.56	5.06	3.60	5.90	6.65	5.60	8.00	3.47	3.75	1.68	1.28	48.60
1952	1.57	0.78	3.88	1.17	2.22	7.13	2.66	3.50	0.77	0.04	2.99	1.93	28.64
1953	1.04	2.72	2.68	1.73	3.18	3.43	4.88	1.05	1.79	1.00	1.07	1.90	26.47
1954	0.34	1.69	3.13	4.58	3.58	5.10	1.98	6.67	1.59	7.43	0.75	2.02	38.86
1955	2.03	1.88	1.20	5.33	2.30	3.65	1.02	2.44	2.40	2.70	0.60	0.54	26.09
1956	0.31	1.39	0.54	2.15	2.27	1.55	4.09	3.34	0.49	0.40	2.43	1.24	20.20
1957	1.33	1.57	2.90	3.49	4.11	2.52	4.47	3.17	1.16	2.00	2.38	3.82	32.92
1958	1.26	0.49	0.31	2.53	3.96	3.77	4.62	1.09	3.00	1.75	1.17	0.50	24.45
1959	1.41	1.77	3.06	4.75	5.31	3.62	4.48	3.90	4.29	5.59	1.50	2.42	42.10
1960	3.43	2.78	1.28	4.89	3.98	5.40	3.40	3.97	3.42	4.91	1.11	0.88	39.45
1961	0.31	1.20	4.48	2.19	1.98	3.69	7.63	2.37	11.00	4.53	4.94	1.58	45.90
1962	2.08	1.84	2.42	2.44	6.10	1.48	6.73	1.95	2.90	4.15	1.21	0.55	33.85
1963	0.91	0.37	3.29	4.24	2.36	1.02	8.78	4.02	2.38	0.63	1.84	0.94	30.78
1964	1.59	0.73	4.02	6.37	2.68	3.89	5.31	2.41	3.99	0.01	3.40	1.27	35.67
1965	4.08	0.97	2.52	7.92	4.04	2.07	4.78	9.31	8.27	0.88	1.93	2.82	49.59
1966	2.01	0.89	0.85	3.96	6.39	4.25	7.74	0.77	2.80	4.38	1.12	2.52	37.68
RECORD MEAN	1.58	1.32	2.47	3.54	3.76	4.19	3.97	3.51	3.56	2.60	2.06	1.54	34.10

TOTAL SNOWFALL

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1930-31	0.0	0.0	0.0	0.0	0.0	0.0	4.5	T	9.5	T	0.0	0.0	14.0
1931-32	0.0	0.0	0.0	0.0	0.2	7.6	2.0	5.5	8.2	0.0	0.0	0.0	23.5
1932-33	0.0	0.0	0.0	0.0	1.1	3.5	2.8	2.1	4.1	0.8	0.0	0.0	14.4
1933-34	0.0	0.0	0.0	T	0.3	3.5	2.6	6.4	3.6	T	0.0	0.0	16.4
1934-35	0.0	0.0	0.0	0.0	T	9.3	1.9	2.8	8.9	0.2	0.3	0.0	23.4
1935-36	0.0	0.0	0.0	0.0								0.0	
1936-37	0.0	0.0	0.0	T	T				5.0	T	0.0	0.0	
1937-38	0.0	0.0	0.0	0.0	4.0	5.7	3.7	1.7	0.6	0.8	0.0	0.0	16.5
1938-39	0.0	0.0	0.0	0.1	0.4	3.1	11.8	6.1	2.5	T	0.0	0.0	24.0
1939-40	0.0	0.0	0.0	T	0.0	T	12.6	3.4	3.1	0.0	0.0	0.0	19.1
1940-41	0.0	0.0	0.0	0.0	2.3	1.4	14.5	3.9	11.5	0.0	0.0	0.0	33.6
1941-42	0.0	0.0	0.0	0.0	1.3	4.4	4.8	6.1	0.8	0.0	0.0	0.0	17.4
1942-43	0.0	0.0	0.1	T	1.6	7.6	11.1	2.5	5.3	T	0.0	0.0	28.2
1943-44	0.0	0.0	0.0	0.0	T	0.4	T	12.6	4.3	T	T	0.0	17.3
1944-45	0.0	0.0	0.0	0.0	0.3	13.9	5.8	4.3	0.7	T	T	0.0	25.0
1945-46	0.0	0.0	0.0	0.0	1.0	11.4	2.5	4.4	2.8	T	0.0	0.0	22.1
1946-47	0.0	0.0	0.0	T	0.0	5.3	8.5	4.3	7.2	T	0.0	0.0	25.3
1947-48	0.0	0.0	0.0	0.0	7.7	1.8	3.8	3.0	8.0	0.0	0.0	0.0	24.3
1948-49	0.0	0.0	0.0	0.0	T	6.2	5.3	2.5	0.9	1.1	0.0	0.0	16.0
1949-50	0.0	0.0	0.0	0.0	0.5	2.3	1.7	7.9	2.5	0.4	0.0	0.0	15.3
1950-51	0.0	0.0	0.0	0.0	2.1	7.3	7.1	4.9	17.0	1.4	0.0	0.0	39.8
1951-52	0.0	0.0	0.0	T	3.4	16.7	4.7	5.9	15.2	T	0.0	0.0	45.9
1952-53	0.0	0.0	0.0	0.0	T	2.5	12.1	6.2	7.1	0.4	0.0	0.0	28.3
1953-54	0.0	0.0	0.0	0.0	1.4	7.8	1.4	4.9	2.2	0.0	T	0.0	17.7
1954-55	0.0	0.0	0.0	T	3.7	16.2	11.2	6.1	8.8	0.0	0.0	0.0	46.0
1955-56	0.0	0.0	0.0	T	2.0	2.9	2.2	7.5	0.7	0.3	0.0	0.0	15.6
1956-57	0.0	0.0	0.0	0.0	2.1	6.5	11.8	0.7	6.9	6.5	0.0	0.0	34.5
1957-58	0.0	0.0	0.0	0.0	0.3	6.4	14.0	1.7	2.0	T	0.0	0.0	24.4
1958-59	0.0	0.0	0.0	0.0	0.9	8.1	15.1	3.6	13.9	1.7	0.0	0.0	43.3
1959-60	0.0	0.0	0.0	T	9.1	9.9	8.5	19.3	14.7	T	T	0.0	61.5
1960-61	0.0	0.0	0.0	0.0	T	5.5	3.4	2.5	2.4	2.5	0.0	0.0	16.3
1961-62	0.0	0.0	0.0	0.0	T	13.6	11.2	15.8	7.1	0.2	0.0	0.0	47.9
1962-63	0.0	0.0	0.0	0.2	T	3.1	14.7	5.8	7.3	0.0	0.0	0.0	31.1
1963-64	0.0	0.0	0.0	0.0	T	9.7	5.3	5.5	13.9	T	0.0	0.0	34.4
1964-65	0.0	0.0	0.0	0.0	2.1	11.7	10.2	7.4	16.2	0.0	0.0	0.0	47.6
1965-66	0.0	0.0	0.0	0.0	0.3	5.7	6.0	0.8	0.7	0.1	T	0.0	13.6
1966-67	0.0	0.0	0.0	0.0	T	7.2							

Record mean values above (not adjusted for instrument location changes listed in the Station Location table) are means for the period beginning in 1930 for temperature and 1927 for precipitation.

A horizontal line drawn on the above tables indicates a break in the data sequence due to a change in instrument exposure or a station move (see Station Location table).

STATION LOCATION

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Telepsychrometer	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Pyrheliometer	Remarks
NE Corner, Moline AP 4.5 mi. S of Moline P.O.	10- 1-26	12-27-39		41° 27'	90° 31'	589	53	3	3				3			
Administration Building Quad City Airport	12-27-39	4- 3-61	1200 ft. W	41° 27'	90° 31'	g582	a25	b36	c36	d5		e5	15	f4		a - 54 ft. for autographic record and 62 ft. for direct reading until moved to field 11-13-58. b - 5 ft. to 5-31-55 and 6-7-56 to 4-16-58. c - 5 ft. to 12-1-54 and 6-7-56 to 4-16-58. d - Added 6-7-56, removed 3-1-60. e - 4 ft. to 4-16-58. f - Commissioned 3-1-60. g - 589 ft. to 3-1-60.
Terminal Building Quad City Airport	4- 4-61	Present	200 ft. SE	41° 27'	90° 31'	582	25	17	17			h16	15	4		h - 5 ft. to 7-22-63.

Requests for additional information should be directed to the Weather Bureau Office for which this summary was issued.

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LOCAL CLIMATOLOGICAL DATA

WITH COMPARATIVE DATA

1965

MOLINE, ILLINOIS

NARRATIVE CLIMATOLOGICAL SUMMARY

(Moline, Rock Island, East Moline, Silvis, Carbon Cliff and Milan, Illinois)
(Davenport, Bettendorf and Riverdale, Iowa)

This area has a temperate continental climate, with a wide temperature range throughout the year. There are come intensely hot, usually humid, periods in summer and severely cold periods in winter. Maxima of 90° or higher have occurred as frequently as on 53 days (1936), but in 1882 there were none. Zero or lower readings have occurred during every winter of record.

Freezing temperatures have occurred as late in spring as May 22 and as early in autumn as September 18. Precipitation usually is well distributed throughout the year. Normally the greatest amounts fall during the 180-day average crop growing season (April 19-October 15, inclusive). Substantial weather changes frequently occur at 3 or 4 day intervals, as a direct result of proximity to some of the most important storm tracks.

The locality is in the heart of the Corn Belt. Agricultural crops include many important staple products in addition to corn. Cattle, hogs, horses and poultry produced in Iowa and Illinois rank high in the nation. Close to the Mississippi River there is large scale truck gardening and considerable dairying. Field production of grains and livestock attains greater development farther away from the large streams, where the countryside is rolling prairie. Damaging drouths are not common. A total crop failure is reputed to be unknown. This, together with the variety of agricultural products, has led to designating the section as the "Bread Basket" or the "Garden Spot" of America.

The climate is favorable for many industries as evidenced by the large number and variety of manufacturing and other enterprises which have located and developed in the community. Among these are some of the world's largest producers of agricultural machinery.

Records began in Davenport, Iowa in May 1871, and have been continuous to date. At the Quad-City Airport, Moline, Illinois, records began in October 1926, but are not complete in the years 1935, 1936, and 1937. For a summary of data from Lock & Dam No. 15, Davenport, Iowa, please refer to IOWA CLIMATOLOGICAL DATA.

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LATITUDE 41° 27' N
LONGITUDE 90° 31' W
ELEVATION (ground) 582 Feet

METEOROLOGICAL DATA FOR THE CURRENT YEAR

MOLINE, ILLINOIS
QUAD CITY AIRPORT
1965

Month	Temperature: Averages: Daily maximum	Daily minimum	Monthly	Extremes: Highest	Date	Lowest	Date	Degree days	Precipitation: Total	Greatest in 24 hrs.	Date	Snow, Sleet: Total	Greatest in 24 hrs.	Date	Relative humidity: Midnight CST	6:00 A.M. CST	Noon CST	6:00 P.M. CST
JAN	30.1	12.7	21.4	60	8	- 9	30	1344	4.08	1.39	22	10.2	5.0	14-15	79	80	72	76
FEB	34.9	16.5	25.7	64	28	-12	2	1096	0.97	0.35	23-24	7.4	5.5	23-24	72	71	62	67
MAR †	34.5	19.2	26.9	58	1	7	21	1174	2.52	0.78	16-17	16.2	5.1	4	84	86	71	74
APR	58.8	39.5	49.2	81	30	30	3	471	7.92	2.31	23-24	0.0	0.0		82	88	69	68
MAY †	77.0	54.8	65.9	88	7	34	29	86	4.04	† 1.14	†31-1	0.0	0.0		75	81	57	57
JUN	81.1	58.1	69.6	93	27	47	18	3	2.07	0.80	29	0.0	0.0		79	84	54	53
JUL	85.0	64.7	74.9	98	23	54	29	0	4.78	0.94	13	0.0	0.0		81	85	56	57
AUG	80.5	61.7	71.1	94	15	47	29	21	9.31	3.67	3-4	0.0	0.0		88	91	63	68
SEP	71.9	55.1	63.5	88	9	41	25+	115	8.27	2.91	20-21	0.0	0.0		87	87	69	76
OCT	64.5	42.7	53.6	82	18	28	28	363	0.88	0.38	16	0.0	0.0		76	84	52	65
NOV	50.2	31.1	40.7	74	2	15	29	722	1.93	1.02	25-26	0.3	0.3	18	79	83	65	73
DEC	43.2	25.8	34.5	61	31+	3	28	939	2.82	2.01	23-24	5.7	5.0	24-25	80	83	72	77
YEAR	59.3	40.2	49.8	98	JUL. 23	-12	FEB. 2	6334	49.59	3.67	AUG. 3-4	39.8	5.5	FEB. 23-24	80	84	64	68

Month	Wind &: Resultant: Direction	Speed	Fastest mile: Speed	Direction #	Date	Percent of possible sunshine	Average sky cover sunrise to sunset	Number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Sleet 1.0 inch or more	Thunderstorms	Heavy fog	Temperatures: Maximum: 90° and above	32° and below	Minimum: 32° and below	0° and below
JAN	30	3.1	33	NW	26	49	6.1	9	8	14	11	4	0	5	0	16	28	7
FEB	27	4.6	30	NW	21	60	5.6	11	4	13	9	3	0	1	0	14	26	4
MAR †	30	4.1	44	W	18	42	7.5	3	10	18	19	4	0	† 1	0	11	31	0
APR	06	1.5	44	SW	11	42	7.5	2	11	17	14	0	5	2	0	0	3	0
MAY †	20	5.0	38	SW	7	64	6.4	5	11	15	13	0	10	0	0	0	0	0
JUN	12	2.7	29	SW	22	69	6.2	8	10	12	4	0	3	0	2	0	0	0
JUL	23	2.1	48	NW	13	72	5.7	7	12	12	9	0	8	0	4	0	0	0
AUG	23	2.6	37	S	7	61	5.8	9	9	13	14	0	9	1	4	0	0	0
SEP	18	2.8	29	NW	21	47	7.0	6	9	15	15	0	10	0	0	0	0	0
OCT	25	4.3	38	W	7	62	4.7	13	8	10	5	0	2	0	0	0	3	0
NOV	25	4.6	49	W	27	42	6.5	9	5	16	7	0	0	3	0	3	19	0
DEC	24	5.5	32	NE	24	34	7.1	5	9	17	8	2	0	3	0	4	21	0
YEAR	24	2.4	49	W	NOV. 27	55	6.3	87	106	172	128	13	47	16	10	48	131	11

† DATA CORRECTED AFTER PUBLICATION OF THE MONTHLY ISSUE.
Add the occurrence of heavy fog on the second day of the March issue.

NORMALS, MEANS, AND EXTREMES

Month	Temperature: Normal: Daily maximum	Daily minimum	Monthly	Extremes: Record highest	Year	Record lowest	Year	Normal degree days	Precipitation: Normal total	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year	Snow, Sleet: Mean total	Maximum monthly	Year	Maximum in 24 hrs.	Year	Relative humidity: Midnight CST	6:00 A.M. CST	Noon CST	6:00 P.M. CST
(a)	(b)	(b)	(b)	6		6		(b)	(b)	36		36		36		33	34		32		5	5	5	5
J	31.6	13.6	22.6	60	1965	-26	1963	1314	1.61	4.08	1965	0.31	1961+	2.07	1960	7.1	15.1	1959	9.6	1941	73	75	65	69
F	34.8	16.6	25.7	64	1965	-16	1963	1100	1.35	2.78	1960	0.17	1933	1.90	1948	5.4	19.3	1960	8.5	1960	74	76	65	68
M	45.1	25.6	35.4	77	1963	-19	1960	918	2.39	5.27	1944	0.31	1958	2.38	1944	6.7	17.0	1951	8.2	1952	77	80	65	66
A	61.7	38.3	50.0	87	1962	21	1962+	450	3.17	7.92	1965	0.68	1946	2.80	1959	0.5	6.5	1957	5.6	1957	75	82	56	56
M	73.1	49.2	61.2	93	1962	31	1963	189	3.80	7.60	1933	0.55	1928	2.60	1954	T	0.3	1935	0.3	1935	76	82	54	53
J	83.2	59.5	71.4	98	1963	42	1961	39	4.37	7.25	1930	1.02	1963	3.43	1933	0.0	0.0		0.0		78	82	51	52
J	88.0	63.2	75.6	99	1963	49	1962	0	3.26	8.78	1963	1.02	1955	5.41	1963	0.0	0.0		0.0		85	87	58	60
A	85.7	61.4	73.6	97	1963	44	1963	9	3.53	9.31	1965	0.52	1947	4.60	1951	0.0	0.0		0.0		85	89	57	61
S	78.1	52.5	65.3	98	1960	32	1962	99	3.25	11.00	1961	0.49	1956	6.29	1961	T	0.1	1942	0.1	1942	84	87	60	70
O	67.1	42.4	54.8	92	1963	19	1962	335	2.46	9.41	1941	0.01	1964	4.89	1954	T	0.2	1962	0.2	1962	78	84	53	63
N	48.9	29.5	39.2	77	1961	3	1964	774	1.95	6.47	1934	0.29	1933	2.73	1961	1.5	9.1	1959	5.7	1959	78	82	62	71
D	35.4	18.3	26.9	64	1962+	-22	1963	1181	1.65	4.81	1942	0.23	1929	3.38	1942	6.7	16.7	1951	8.4	1954	77	78	70	74
YR	61.1	39.2	50.1	99	JUL. 1963	-26	JAN. 1963	6408	32.79	11.00	SEP. 1961	0.01	OCT. 1964	6.29	SEP. 1961	27.9	19.3	FEB. 1960	9.6	JAN. 1941	78	82	60	64

Month	Wind: Mean hourly speed	Prevailing direction	Fastest mile: Speed	Direction #	Year	Pct. of possible sunshine	Mean sky cover sunrise to sunset	Mean number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, Sleet 1.0 inch or more	Thunderstorms	Heavy fog	Temperatures: Max.: 90° and above	32° and below	Min.: 32° and below	0 and below
(a)	21	12	37	37		22	23	32	32	32	33	33	32	31	5	5	5	5
J	10.4	WNW	56	SW	1946	47	6.6	8	7	16	9	2	*	3	0	18	29	10
F	10.8	WNW	58	NW	1948	47	6.5	7	6	15	8	2	*	2	0	12	27	3
M	12.1	WNW	66	SW	1954+	50	6.8	7	8	16	11	2	2	2	0	5	23	*
A	12.2	NW	73	SW	1947	53	6.6	6	9	15	11	*	4	1	0	0	8	0
M	10.5	E	68	SW	1955	59	6.4	7	9	15	12	0	7	1	2	0	*	0
J	9.0	S	77	SW	1947	64	6.1	7	10	13	10	0	8	1	8	0	0	0
J	7.4	E	65	W	1953	72	5.4	10	12	9	9	0	9	1	6	0	0	0
A	7.0	E	61	SW	1931	70	5.3	10	11	10	9	0	7	3	5	0	0	0
S	8.1	S	66	NW	1945	67	5.0	12	8	10	9	0	4	2	2	0	*	0
O	8.8	S	56	SW	1949	63	4.9	13	7	11	7	0	2	3	*	0	5	0
N	10.9	WNW	60	W	1952	45	6.5	8	7	15	7	*	1	1	0	1	17	0
D	10.5	WNW	61	SW	1947	42	6.6	7	6	18	8	2	1	2	0	15	27	6
YR	9.8	WNW	77	SW	JUN. 1947	58	6.1	102	100	163	110	9	47	20	23	51	136	20

Means and extremes in the above table are from existing locations. Annual extremes have been exceeded at other locations as follows: Highest temperature 106 in August 1936.

(a) Length of record, years.
(b) Climatological standard normals (1931-1960).
* Less than one half.
\+ Also on earlier dates, months or years.
T Trace, an amount too small to measure. Below-zero temperatures are preceded by a minus sign.

\# To 8 compass points only.

Unless otherwise indicated, dimensional units used in this bulletin are: temperature in degrees F.; precipitation, including snowfall, in inches; wind movement in miles per hour; and relative humidity in percent. Monthly heating degree day totals are the sums of the negative departures of average daily temperatures from 65° F. Sleet was included in snowfall totals beginning with July 1948. Heavy fog reduces visibility to 1/4 mile or less.

Sky cover is expressed in a range of 0 for no clouds or obscuring phenomena to 10 for complete sky cover. The number of clear days is based on average cloudiness 0-3; partly cloudy days 4-7; and cloudy days 8-10 tenths.

& Figures instead of letters in a direction column indicate direction in tens of degrees from true North; i. e., 09 - East, 18 - South, 27 - West, 36 - North, and 00 - Calm. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations. If figures appear in the direction column under "Fastest mile" the corresponding speeds are fastest observed 1 - minute values.

551.5
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1965

MOLINE, ILLINOIS
QUAD CITY AIRPORT

AVERAGE TEMPERATURE

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	An'l.
1929										51.6	33.6	26.4	-
1930	12.4	35.6	37.6	51.8	61.3	69.4	76.1	73.5	66.1	50.5	41.1	26.2	50.2
1931	29.7	34.8	34.6	50.2	56.6	74.6	73.2	72.1	71.2	57.4	47.4	35.6	53.1
1932	29.4	33.2	28.4	49.3	62.9	72.8	75.4	72.2	62.6	50.0	34.2	24.8	49.6
1933	34.8	23.7	36.4	48.6	61.6	77.6	76.0	71.0	70.2	50.0	37.7	29.0	51.4
1934	30.0	22.2	33.8	50.4	68.4	78.1	79.2	71.7	62.5	56.3	44.3	22.4	51.6
1935	22.8	29.2	41.0	47.2	54.8	66.4	79.1	74.2	-	-	-	-	-
1936	-	-	-	-	-	-	-	80.1	68.6	53.6	37.6	-	-
1937	-	-	34.4	48.9	63.0	70.9	76.4	77.4	65.8	51.6	36.4	24.6	-
1938	22.4	34.4	44.8	52.4	61.4	69.0	77.0	76.3	67.5	58.6	40.4	27.0	52.6
1939	29.6	24.4	38.0	46.6	65.8	72.2	75.7	71.0	68.8	54.2	39.6	33.1	51.6
1940	10.0	26.2	32.3	47.8	57.8	72.6	76.9	72.1	64.3	57.0	36.0	31.5	48.7
1941	25.6	22.4	33.6	54.4	65.8	71.6	75.0	74.8	67.5	55.6	41.6	34.1	51.8
1942	22.5	24.6	39.5	55.3	60.8	71.0	75.0	71.7	63.0	53.2	39.7	21.0	49.8
1943	19.6	27.3	32.3	48.2	57.8	73.2	75.9	74.8	61.2	52.2	35.0	26.9	48.7
1944	30.1	27.4	32.6	46.4	66.2	73.6	73.8	73.4	66.2	53.4	42.5	20.2	50.5
1945	18.2	27.7	48.8	51.6	55.6	66.5	72.2	73.2	63.9	51.0	38.6	19.7	48.9
1946	25.6	29.5	48.0	53.5	57.8	70.2	74.8	69.2	64.8	57.8	40.8	31.4	52.0
1947	27.0	20.1	32.5	48.8	56.5	67.4	72.2	81.0	68.2	62.6	33.8	30.2	50.0
1948	17.5	24.4	35.6	55.2	57.8	69.0	75.1	73.6	67.6	51.1	41.3	29.0	49.8
1949	23.0	24.8	37.1	49.4	63.8	73.6	78.0	73.5	59.0	57.0	41.8	31.0	51.0
1950	25.9	24.7	32.9	43.6	62.0	69.6	71.1	68.5	64.1	59.2	33.8	19.1	47.9
1951	20.6	25.6	31.8	47.3	63.3	67.2	72.9	71.5	61.8	54.6	32.6	23.4	47.7
1952	25.1	31.4	33.5	52.1	60.6	75.7	76.4	71.1	64.7	46.6	41.4	30.5	50.7
1953	25.3	30.0	37.3	45.9	60.5	74.3	75.9	74.3	65.4	57.9	42.8	30.0	51.6
1954	23.3	36.3	34.0	53.7	56.1	74.6	76.2	72.0	67.5	53.1	40.7	29.1	51.4
1955	22.0	25.3	36.0	57.0	63.8	67.8	80.5	76.8	66.4	53.6	34.2	24.2	50.6
1956	22.7	26.9	36.1	47.1	62.6	74.0	73.2	73.3	63.4	59.0	38.4	28.9	50.5
1957	16.6	32.5	37.0	50.4	59.6	70.4	76.7	73.2	61.9	49.8	38.1	32.8	49.9
1958	22.2	16.7	35.7	50.5	62.2	66.3	71.3	73.5	64.4	56.0	42.0	22.2	48.6
1959	15.7	25.7	36.9	49.4	65.3	72.0	73.2	77.2	66.3	49.9	31.4	34.7	49.8
1960	25.7	22.3	19.9	53.4	58.9	68.5	72.8	73.8	68.6	53.8	41.5	23.7	48.6
1961	21.1	30.7	39.3	44.3	58.1	71.9	74.2	73.9	66.1	55.4	40.8	23.0	49.9
1962	16.2	23.7	32.6	49.3	67.9	70.6	71.6	72.9	61.7	55.2	39.0	23.2	48.7
1963	9.7	17.9	41.1	52.9	60.0	73.5	74.8	70.8	64.9	64.4	43.1	13.8	48.9
1964	28.4	27.0	34.4	51.5	66.3	72.3	76.6	70.8	65.6	50.7	44.2	24.8	51.1
1965	21.4	25.7	26.9	49.2	65.9	69.6	74.9	71.1	63.5	53.6	40.7	34.5	49.8
RECORD MEAN TEMP	22.7	26.9	35.6	50.1	61.4	71.4	75.3	73.4	65.3	54.4	39.1	26.9	50.2
MAX	31.3	35.6	44.7	60.8	72.4	82.3	86.4	84.5	76.9	66.0	48.4	35.0	60.4
MIN	14.1	18.2	26.5	39.3	50.4	60.5	64.1	62.2	53.6	42.7	29.8	18.8	40.0

TOTAL PRECIPITATION

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1926											3.48	0.57	-
1927	0.42	2.49	3.17	4.73	5.68	2.91	1.23	2.84	5.72	5.28	3.30	1.52	39.29
1928	0.32	1.79	2.24	3.75	0.55	4.64	6.63	5.73	1.70	3.90	4.34	1.52	37.11
1929	2.95	0.51	1.71	6.07	1.90	3.36	6.57	2.68	5.93	3.01	1.70	0.23	36.62
1930	2.10	2.20	0.92	2.90	2.81	7.25	1.83	2.60	0.81	2.76	1.37	0.79	28.34
1931	0.56	0.19	1.98	2.43	3.17	2.61	1.62	1.42	4.07	3.01	4.30	2.28	27.64
1932	0.95	0.54	1.81	1.32	4.53	4.80	3.71	7.12	0.86	3.13	1.11	1.98	31.86
1933	2.10	0.17	3.47	1.81	7.60	5.19	1.86	1.87	2.37	1.70	0.29	1.36	29.79
1934	0.75	0.66	1.15	0.96	0.98	4.21	3.98	4.51	8.88	1.34	6.47	1.05	34.94
1935	1.49	1.26	2.83	2.04	6.16	5.74	1.73	2.95	-	-	-	-	-
1936	-	-	-	-	-	-	-	-	10.35	1.47	1.53	-	-
1937	-	-	1.13	3.69	4.15	2.35	3.56	1.34	1.22	2.11	0.79	0.91	-
1938	2.54	1.68	2.94	3.24	6.78	4.63	5.81	3.49	6.84	1.52	2.45	0.88	42.80
1939	1.67	1.70	2.68	3.56	2.28	3.99	2.45	5.59	0.94	2.96	0.94	0.30	29.06
1940	1.26	0.53	1.57	3.01	1.37	1.19	2.34	4.88	1.54	2.02	1.57	1.57	22.85
1941	2.86	0.53	1.38	4.49	3.49	6.46	1.67	1.66	5.45	9.41	1.25	1.43	40.08
1942	0.78	1.08	1.39	0.92	4.06	5.73	4.18	2.80	2.95	0.92	2.99	4.81	32.61
1943	1.36	1.84	1.49	5.61	6.38	4.55	2.10	4.31	1.23	3.24	1.77	0.41	34.29
1944	0.60	1.99	5.27	5.55	4.60	6.19	2.40	2.88	1.60	1.06	2.98	1.54	36.66
1945	0.44	0.90	3.36	3.88	5.07	2.52	1.39	3.86	4.74	1.09	1.71	1.69	30.65
1946	2.53	0.28	4.64	0.68	4.10	6.42	1.47	3.91	3.47	1.65	2.49	1.43	33.07
1947	2.08	0.23	2.10	7.36	3.70	5.99	4.08	0.52	5.13	0.88	1.92	1.64	35.63
1948	0.84	2.35	3.46	1.67	2.11	2.91	8.27	2.83	3.66	1.81	2.23	2.21	34.35
1949	3.28	1.78	2.76	1.10	1.82	5.45	3.40	7.12	1.96	2.27	0.71	2.91	34.56
1950	3.56	1.76	1.09	5.87	3.01	5.11	4.41	1.87	3.85	0.61	0.73	1.01	32.88
1951	1.05	2.56	5.06	3.60	5.90	6.65	5.60	8.00	3.47	3.75	1.68	1.28	48.60
1952	1.57	0.78	3.88	1.17	2.22	7.13	2.66	3.50	0.77	0.04	2.99	1.93	28.64
1953	1.04	2.72	2.68	1.73	3.18	3.43	4.88	1.05	1.79	1.00	1.07	1.90	26.47
1954	0.34	1.69	3.13	4.58	3.58	5.10	1.98	6.67	1.59	7.43	0.75	2.02	38.86
1955	2.03	1.88	1.20	5.33	2.30	3.65	1.02	2.44	2.40	2.70	0.60	0.54	26.09
1956	0.31	1.39	0.54	2.15	2.27	1.55	4.09	3.34	0.49	0.40	2.43	1.24	20.20
1957	1.33	1.57	2.90	3.49	4.11	2.52	4.47	3.17	1.16	2.00	2.38	3.82	32.92
1958	1.26	0.49	0.31	2.53	3.96	3.77	4.62	1.09	3.00	1.75	1.17	0.50	24.45
1959	1.41	1.77	3.06	4.75	5.31	3.62	4.48	3.90	4.29	5.59	1.50	2.42	42.10
1960	3.43	2.78	1.28	4.89	3.98	5.40	3.40	3.97	3.42	4.91	1.11	0.88	39.45
1961	0.31	1.20	4.48	2.19	1.98	3.69	7.63	2.37	11.00	4.53	4.94	1.58	45.90
1962	2.08	1.84	2.42	2.44	6.10	1.48	6.73	1.95	2.90	4.15	1.21	0.55	33.85
1963	0.91	0.37	3.29	4.24	2.36	1.02	8.78	4.02	2.38	0.63	1.84	0.94	30.78
1964	1.59	0.73	4.02	6.37	2.68	3.89	5.31	2.41	3.99	0.01	3.40	1.27	35.67
1965	4.08	0.97	2.52	7.92	4.04	2.07	4.78	9.31	8.27	0.88	1.93	2.82	49.59
RECORD MEAN	1.57	1.33	2.51	3.53	3.69	4.19	3.87	3.58	3.58	2.55	2.09	1.52	34.01

Record mean values above (not adjusted for instrument location changes listed in the Station Location table) are means for the period beginning in 1930 for temperature and 1927 for precipitation.

TOTAL HEATING DEGREE DAYS

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1942-1943							1407	1056	1016	506	267	30	
1943-1944	1	3	164	400	898	1180	1082	1092	1007	555	137	26	6545
1944-1945	2	8	77	362	674	1391	1452	1044	505	408	312	81	6316
1945-1946	13	9	139	437	795	1402	1223	993	526	357	233	59	6186
1946-1947	0	19	99	240	730	1043	1176	1253	1011	487	276	59	6393
1947-1948	10	0	117	148	932	1078	1471	1177	914	328	232	17	6424
1948-1949	0	4	69	431	709	1114	1302	1126	868	471	127	6	6227
1949-1950	0	3	204	289	695	1055	1204	1126	989	636	129	34	6364
1950-1951	4	24	82	222	930	1416	1372	1096	1020	543	132	37	6878
1951-1952	3	4	130	350	965	1283	1232	967	970	399	195	6	6504
1952-1953	0	9	97	565	702	1062	1224	974	850	570	204	2	6259
1953-1954	0	1	95	266	660	1078	1284	796	953	355	291	39	5818
1954-1955	0	2	58	395	722	1108	1329	1107	891	236	100	44	5992
1955-1956	0	0	71	356	914	1259	1305	1096	890	537	155	26	6609
1956-1957	0	13	109	189	790	1109	1492	902	861	448	191	23	6127
1957-1958	0	2	136	467	800	989	1319	1345	898	435	125	41	6557
1958-1959	4	21	93	289	685	1319	1523	1096	861	462	114	8	6475
1959-1960	4	1	100	462	1002	932	1212	1229	1392	376	203	13	6926
1960-1961	2	1	55	348	700	1277	1355	954	789	614	242	12	6349
1961-1962	1	0	121	309	722	1297	1510	1150	999	481	78	22	6690
1962-1963	8	1	149	342	774	1292	1717	1315	734	370	186	15	6903
1963-1964	0	16	83	108	653	1585	1129	1097	942	405	71	20	6109
1964-1965	3	24	100	437	624	1241	1344	1096	1174	471	86	3	6603
1965-1966	0	21	115	363	722	939							

TOTAL SNOWFALL

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1930-1931	.0	.0	.0	.0	.0	.0	4.5	T	9.5	T	.0	.0	14.0
1931-1932	.0	.0	.0	.0	0.2	7.6	2.0	5.5	8.2	.0	.0	.0	23.5
1932-1933	.0	.0	.0	.0	1.1	3.5	2.8	2.1	4.1	0.8	.0	.0	14.4
1933-1934	.0	.0	.0	T	0.3	3.5	2.6	6.4	3.6	T	.0	.0	16.4
1934-1935	.0	.0	.0	.0	T	9.3	1.9	2.8	8.9	0.2	0.3	.0	23.4
1935-1936	.0	.0	.0	.0	-	-	-	-	-	-	-	.0	-
1936-1937	.0	.0	.0	T	T	-	-	-	5.0	T	.0	.0	-
1937-1938	.0	.0	.0	.0	4.0	5.7	3.7	1.7	0.6	0.8	.0	.0	16.5
1938-1939	.0	.0	.0	0.1	0.4	3.1	11.8	6.1	2.5	T	.0	.0	24.0
1939-1940	.0	.0	.0	T	.0	T	12.6	3.4	3.1	.0	.0	.0	19.1
1940-1941	.0	.0	.0	.0	2.3	1.4	14.5	3.9	11.5	.0	.0	.0	33.6
1941-1942	.0	.0	.0	.0	1.3	4.4	4.8	6.1	0.8	.0	.0	.0	17.4
1942-1943	.0	.0	0.1	T	1.6	7.6	11.1	2.5	5.3	T	.0	.0	28.2
1943-1944	.0	.0	.0	.0	T	0.4	T	12.6	4.3	T	T	.0	17.3
1944-1945	.0	.0	.0	.0	0.3	13.9	5.8	4.3	0.7	T	T	.0	25.0
1945-1946	.0	.0	.0	.0	1.0	11.4	2.5	4.4	2.8	T	.0	.0	22.1
1946-1947	.0	.0	.0	T	.0	5.3	8.5	4.3	7.2	T	.0	.0	25.3
1947-1948	.0	.0	.0	.0	7.7	1.8	3.8	3.0	8.0	.0	.0	.0	24.3
1948-1949	.0	.0	.0	.0	T	6.2	5.3	2.5	0.9	1.1	.0	.0	16.0
1949-1950	.0	.0	.0	.0	0.5	2.3	1.7	7.9	2.5	0.4	.0	.0	15.3
1950-1951	.0	.0	.0	.0	2.1	7.3	7.1	4.9	17.0	1.4	.0	.0	39.8
1951-1952	.0	.0	.0	T	3.4	16.7	4.7	5.9	15.2	T	.0	.0	45.9
1952-1953	.0	.0	.0	.0	T	2.5	12.1	6.2	7.1	0.4	.0	.0	28.3
1953-1954	.0	.0	.0	.0	1.4	7.8	1.4	4.9	2.2	.0	T	.0	17.7
1954-1955	.0	.0	.0	T	3.7	16.2	11.2	6.1	8.8	.0	.0	.0	46.0
1955-1956	.0	.0	.0	T	2.0	2.9	2.2	7.5	0.7	0.3	.0	.0	15.6
1956-1957	.0	.0	.0	.0	2.1	6.5	11.8	0.7	6.9	6.5	.0	.0	34.5
1957-1958	.0	.0	.0	.0	0.3	6.4	14.0	1.7	2.0	T	.0	.0	24.4
1958-1959	.0	.0	.0	.0	0.9	8.1	15.1	3.6	13.9	1.7	.0	.0	43.3
1959-1960	.0	.0	.0	T	9.1	9.9	8.5	19.3	14.7	T	T	.0	61.5
1960-1961	.0	.0	.0	.0	T	5.5	3.4	2.5	2.4	2.5	.0	.0	16.3
1961-1962	.0	.0	.0	.0	T	13.6	11.2	15.8	7.1	0.2	.0	.0	47.9
1962-1963	.0	.0	.0	0.2	T	3.1	14.7	5.8	7.3	.0	.0	.0	31.1
1963-1964	.0	.0	.0	.0	T	9.7	5.3	5.5	13.9	T	.0	.0	34.4
1964-1965	.0	.0	.0	.0	2.1	11.7	10.2	7.4	16.2	.0	.0	.0	47.6
1965-1966	.0	.0	.0	.0	0.3	5.7							

A horizontal line drawn on the above tables indicates a break in the data sequence due to a change in instrument exposure or a station move (see Station Location table).

Requests for additional information should be directed to the Weather Bureau Office for which this summary was issued.

STATION LOCATION

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above Sea level: Ground at temperature site	Elevation above Ground: Wind instruments	Extreme thermometers	Psychrometer	Telepsychrometer	Tipping bucket rain gage	Weighing rain gage	8" rain gage	Hygrothermometer	Pyrheliometer	Remarks
NE Corner, Moline AP 4.5 mi. S of Moline P.O.	10- 1-26	12-27-39		41° 27'	90° 31'	589	53	3	3				3			
Administration Building Quad City Airport	12-27-39	4- 3-61	1200 ft. W	41° 27'	90° 31'	g582	a25	b36	c36	d5		e5	15	f4		a - 54 ft. for autographic record and 62 ft. for direct reading until moved to field 11-13-58. b - 5 ft. to 5-31-55 and 6-7-56 to 4-16-58. c - 5 ft. to 12-1-54 and 6-7-56 to 4-16-58. d - Added 6-7-56, removed 3-1-60. e - 4 ft. to 4-16-58. f - Commissioned 3-1-60. g - 589 ft. to 3-1-60.
Terminal Building Quad City Airport	4- 4-61	Present	200 ft. SE	41° 27'	90° 31'	582	25	17	17			h15	15	4		h - 5 ft. to 7-22-63.

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